Missouri High School Survey 10-year Trend Analysis Report

		Health Risk Behav	ior and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
QN8: Percentag	ge of students who	rarely or never wore	a seat belt (when ri	ding in a car driven	by someone else)			
11.9		11.4	8.1	9.0	8.5	Decreased, 2009-2019	Not available§	No change
		rode with a driver whys before the survey)		g alcohol (in a car	or other vehicle,	, ,		
24.6		19.3	18.5	15.7	15.8	Decreased, 2009-2019	Not available	No change
	ng the 30 days before	drove a car or other ore the survey, among						
		8.9	6.8	5.3	4.2	Decreased, 2013-2019	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	or and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019	<u> </u>		
	s before the surve	texted or e-mailed w y, among students wl						
		46.0	47.0	46.4	45.8	No linear change	Not available§	No change
QN12: Percentage of the Percen		carried a weapon (su	ich as a gun, knife, 22.1	or club, on at least	1 day during the	No linear change	Not available	No change
	ge of students who g the 30 days befor	carried a weapon on re the survey)	school property (s	uch as a gun, knife,	, or club, on at			
			5.9	4.2	4.6	No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

otal ijury and Violen		Health Risk Behav	ior and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019			
QN17: Percenta	age of students who	were in a physical f	ight (one or more ti	mes during the 12	months before the			
342.037				19.7	24.7	No linear change	Not available [§]	No change
QN19: Percenta want to)	age of students who	were ever physicall	y forced to have see	xual intercourse (w	hen they did not			
8.1		10.2	8.4	10.2	10.0	No linear change	Not available	No change
someone they w injured with an	rere dating or going object or weapon] o	experienced physica out with [counting some or more times du ne during the 12 mon	such things as being ring the 12 months	hit, slammed into before the survey,	something, or			
		9.6	11.7	10.4	8.4	No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

al iry and Violence		Health Risk Behav	ior and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019	<u> </u>		
N23: Percentage	e of students who	were bullied on sch	ool property (ever o	luring the 12 month	s before the			
22.8		25.2	21.4	23.3	21.0	No linear change	Not available§	No chang
		were electronically al media, ever during			n texting,			,

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

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		Health Risk Behavi	ior and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019			
QN26: Percenta the survey)	age of students who	seriously considered	l attempting suicide	e (ever during the 1	2 months before			
15.4		14.2	16.2	20.9	17.4	Increased, 2009-2019	Not available§	No change
QN27: Percenta before the surve		made a plan about h	ow they would atte	empt suicide (during	g the 12 months			-
11.3		12.1	13.4	15.5	13.6	Increased, 2009-2019	Not available	No change
	age of students who	attempted suicide (c	one or more times d	uring the 12 month	s before the	. ,		,
survey)		6.9	9.8	8.6	8.3	No linear change	Not available	No change
survey) 6.4		0.7						
6.4 QN29: Percenta		o had a suicide attemp se (during the 12 mo	ot that resulted in a		or overdose that			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Total Tobacco Use **Health Risk Behavior and Percentages** Linear Change* Quadratic Change* Change from 2017-2019 † 2009 2011 2013 2015 2017 2019 QN31: Percentage of students who first tried cigarette smoking before age 13 years (even one or two puffs) 9.8 9.3 No linear change Not available§ No change QN32: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey) 18.9 14.9 11.0 9.2 6.5 Decreased, 2009-2019 Not available No change QNFRCIG: Percentage of students who currently smoked cigarettes frequently (on 20 or more days during the 30 days before the survey) 5.5 2.7 6.8 4.2 1.1 Decreased, 2009-2019 Not available Decreased QNDAYCIG: Percentage of students who currently smoked cigarettes daily (on all 30 days during the 30 days before the survey) 5.5 3.9 2.0 0.9 3.1 Decreased, 2009-2019 Not available Decreased

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\}dagger}$ Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behav	ior and Percentage	es		Linear Change*	Quadratic Change*	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019			
	es, vaping pens, e-	ever used an electro hookahs, and hooka						
_			40.6	39.9	49.6	Increased, 2015-2019	Not available§	Increased
e-pipes, vape pipe	es, vaping pens, e-	currently used an e hookahs, and hooka east 1 day during the	h pens [such as blu,	NJOY, Vuse, Mar	kTen, Logic,			
vapin Pius, eGo, a			22.0	10.9	20.7	No linear change	Not available	Increase

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

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		Health Risk Behav	ior and Percentag		Linear Change*	Quadratic Change [*]	Change from 2017-2019 †	
2009	2011	2013	2015	2017	2019			
QNDAYEVP: Per the 30 days before		nts who currently us	ed electronic vapor	products daily (on	all 30 days during			
			1.8	2.1	6.9	Increased, 2015-2019	Not available§	Increased
QNTB5: Percenta 1 day during the 30		no currently smoked survey)	cigarettes or used e	electronic vapor pro	ducts (on at least			
			26.1	16.3	22.8	No linear change	Not available	Increased

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Total Tobacco Use **Health Risk Behavior and Percentages** Linear Change* Quadratic Change* Change from 2017-2019 † 2009 2011 2013 2015 2017 2019 QN37: Percentage of students who currently used smokeless tobacco (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, or Camel Snus], not counting any electronic vapor products, on at least 1 day during the 30 days before the survey) 6.1 5.5 No linear change Not available§ No change QN38: Percentage of students who currently smoked cigars (cigars, cigarillos, or little cigars, on at least 1 day during the 30 days before the survey) 13.5 13.3 12.1 9.2 5.4 Decreased, 2009-2019 Not available Decreased QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey) 24.2 21.0 17.6 13.2 9.0 Decreased, 2009-2019 Not available Decreased

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

otal obacco Use		Health Risk Behav	ior and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019			
smokeless toba	tage of students who cco, shisha or hooka ong students who use	h tobacco, and elect	ronic vapor product	ts, ever during the 1	12 months before			
				38.0	49.3	Increased, 2017-2019	Not available§	Increased

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behav	ior and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019			
QN40: Percenta	age of students who	had their first drink	of alcohol before a	ge 13 years (other t	han a few sips)			
20.4		19.5	17.3	18.4	16.0	No linear change	Not available [§]	No change
	nge of students who	currently drank alco	hol (at least one dr	ink of alcohol, on a	t least 1 day			+
39.3		35.6	34.5	32.0	27.9	Decreased, 2009-2019	Not available	No change
for female stude		currently were bing drinks of alcohol in the the survey)						
				17.0	15.2	No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

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Total Alcohol and Other Drug Use Health Risk Behavior and Percentages Linear Change* Quadratic Change* Change from 2017-2019 † 2009 2011 2013 2015 2017 2019 QN44: Percentage of students who usually got the alcohol they drank by someone giving it to them (during the 30 days before the survey, among students who currently drank alcohol) 39.9 40.2 41.0 34.0 42.4 No linear change Not available§ No change QN47: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey) 20.6 20.5 16.3 19.9 16.3 No linear change Not available No change QN49: Percentage of students who ever took prescription pain medicine without a doctor's prescription or differently than how a doctor told them to use it (counting drugs such as codeine, Vicodin, OxyContin, Hydrocodone, and Percocet, one or more times during their life) 13.7 22.7 Increased, 2017-2019 Not available Increased

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Total Alcohol and Othe	J	Health Risk Behav	vior and Percentag	ees		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019	_		
QN52: Percent more times duri		ever used heroin (a	lso called "smack,"	"junk," or "China V	White," one or			
				4.1	2.4	No linear change	Not available§	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

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		Health Risk Behavi	ior and Percentag	es	Change from 2017-2019			
2009	2011	2013	2015	2017	2019			
QN58: Percenta	ige of students who	ever had sexual inte	rcourse		·			
48.7		43.1	37.7	41.9	44.3	Decreased, 2009-2019	Not available [§]	No change
QN59: Percenta	age of students who	had sexual intercour	rse for the first time	e before age 13 year	rs			
5.7		3.9	4.1	2.5	4.6	No linear change	Not available	No change
	nge of students who	were currently sexuathe survey)	ally active (had sex	ual intercourse with	h at least one			
35.5		32.4	27.5	32.3	33.2	No linear change	Not available	No change
	age of students who	drank alcohol or use	ed drugs before last	sexual intercourse	(among students			
		20.7	20.4	15.5	20.2	No linear change	Not available	

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

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xual Behaviors		Health Risk Behavi	Linear Change [*]	Quadratic Change [*]	Change from 2017-2019 †			
2009	2011	2013	2015	2017	2019	<u> </u>		
QN63: Percenta currently sexuall		used a condom during	ng last sexual interc	course (among stud	ents who were			
59.8		58.1	56.4	51.0	56.4	No linear change	Not available§	No change
	ge of students who who were currently	o used birth control pi y sexually active) 16.0	lls before last sexu 22.9	al intercourse (to pr	revent pregnancy, 27.4	No linear change	Not available	No change
	kplanon) before las	ats who used an IUD (st sexual intercourse (
		3.5	4.6	3.9	5.6	No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavio	or and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019	<u> </u>		
birth control rin		ents who used a shot (s ng) before last sexual i						
		4.8	5.6	6.7	7.2	No linear change	Not available§	No change
mplant (such as	s Implanon or Nexp ch as NuvaRing) be	ents who used birth corblanon); or a shot (suclefore last sexual interc	h as Depo-Provera ourse (to prevent p), patch (such as O pregnancy, among s	rthoEvra), or birth students who were	Increased, 2013-2019	Not available	No chang
mplant (such as ontrol ring (suc	s Implanon or Nexp ch as NuvaRing) be	olanon); or a shot (sucl	h as Depo-Provera), patch (such as O	rthoEvra), or birth	Increased, 2013-2019	Not available	No chang
mplant (such as control ring (such as control ring (such as control ring) (such as control	s Implanon or Next ch as NuvaRing) be lly active) Percentage of stude uch as Mirena or Pa patch (such as Ortl	planon); or a shot (sucle fore last sexual interc	h as Depo-Provera ourse (to prevent p 33.0 condom during last uch as Implanon o ol ring (such as Nu), patch (such as O oregnancy, among s 34.3 sexual intercourse r Nexplanon); or a avaRing) before las	and birth control shot (such as	Increased, 2013-2019	Not available	No chan

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

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		Health Risk Behav	ior and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019
-			2015	2017	2019			
2009	2011	2013	2015	2017	2019			
NBCNONE: P	Percentage of stude	nts who did not use a	any method to prev					

8.4

Decreased, 2017-2019

Not available

Decreased

13.7

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	ior and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
		ho were overweight ic reference data from			ile for body mass			
1.1.2			12.2	157	16.1	No linear change	Not available¶	No chang
14.3	manutage of students	15.5	13.3	15.7		No inlear change	Not available	No chang
NOBESE: Per		s who had obesity (>= in the 2000 CDC grow 14.9	= 95th percentile fo			Increased, 2009-2019	Not available	No chang
NOBESE: Per nd age-specific 14.3 2N69: Percenta	reference data from	s who had obesity (>= n the 2000 CDC grow	= 95th percentile fo wth charts) [§] 13.1	or body mass index 16.9	, based on sex-			,
NOBESE: Per nd age-specific 14.3	reference data from	s who had obesity (>= n the 2000 CDC grow 14.9	= 95th percentile fo wth charts) [§] 13.1	or body mass index 16.9	, based on sex-			No chan
NOBESE: Per nd age-specific 14.3 2N69: Percenta ays before the	reference data from age of students who survey)	s who had obesity (>= n the 2000 CDC grov 14.9 did not drink fruit ju	= 95th percentile for wth charts) [§] 13.1 nice (100% fruit jui	or body mass index 16.9 ces one or more tin 34.3	nes during the 7	Increased, 2009-2019	Not available	,

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

Not enough years of data to calculate.

		Health Risk Behavi	or and Percentag	res		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
NFR0: Perceruice, or grape j	ntage of students wh uice, during the 7 day	no did not eat fruit or ays before the survey	drink 100% fruit j)	uices (such as orang	ge juice, apple			
7.1		7.6	6.6	7.9	7.3	No linear change	Not available§	No chang
		no ate fruit or drank 1 uice, during the 7 day			er day (such as			
55.9		55.0	53.6	50.5	51.0	Decreased, 2009-2019	Not available	No chang
		no ate fruit or drank 1 uice, during the 7 day			er day (such as			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	or and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
QN71: Percent survey)	age of students who	did not eat green sal	ad (one or more tir	mes during the 7 da	ys before the			
37.1		41.5	43.6	45.7	42.8	Increased, 2009-2019	Not available§	No change
	:			:				
QN72: Percent	age of students who	did not eat potatoes	(one or more times	during the 7 days	pefore the survey)			
29.0	age of students who	did not eat potatoes 27.9	(one or more times 34.5	s during the 7 days	perfore the survey) 36.6	Increased, 2009-2019	Not available	No chang
29.0			34.5	33.8	36.6	Increased, 2009-2019	Not available	No chang
29.0		27.9	34.5	33.8	36.6	Increased, 2009-2019 No linear change	Not available Not available	No chang No chang
29.0 QN73: Percent 53.0	age of students who	27.9	34.5 one or more times of 54.8	33.8 during the 7 days be 58.4	36.6 efore the survey) 53.0	,		

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	or and Percentage	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
		who did not eat veget ots, or other vegetab						
6.7		6.3	6.1	8.4	6.5	No linear change	Not available§	No chang
			na or mora timas na	er dav (green salad.	potatoes			
excluding Frence	centage of students v ach fries, fried potato	es, or potato chips],						
						Decreased, 2009-2019	Not available	No chang
excluding Frenche survey) 62.5 2NVEG2: Perc	centage of students v	es, or potato chips],	58.0	getables, during the 55.4 er day (green salad.	59.3 potatoes	Decreased, 2009-2019	Not available	No chan

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	ior and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
		who ate vegetables thoes, or potato chips],						
14.3		11.5	10.5	9.6	10.4	Decreased, 2009-2019	Not available [§]	No change
	age of students who	did not drink milk (d			10.4	Decreased, 2009-2019	Not available [§]	No change
	age of students who	,			26.0	Decreased, 2009-2019 Increased, 2009-2019	Not available ⁸ Not available	No chang No chang
QN76: Percenta 16.7 QNMILK1: Per drank in a glass	rcentage of students	did not drink milk (o 18.1 who drank one or m on, or with cereal and	during the 7 days be 20.8	efore the survey) 26.0 v of milk (counting)	26.0 the milk they	Increased, 2009-2019		

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behav	ior and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
drank in a glass		who drank three or on, or with cereal and re the survey)						
15.8		11.3	10.4	6.8	7.0	Decreased, 2009-2019	Not available [§]	No change
	age of students who	did not eat breakfas				Decreased, 2009-2019	Not available [§]	No change
	age of students who					Decreased, 2009-2019 No linear change	Not available [§] Not available	No change
QN77: Percenta		did not eat breakfas	t (during the 7 days	before the survey)	15.4			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

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2011 udents who v	2013	2015					
udents who v			2017	2019			
that increase	were physically actived their heart rate ar						
	45.4	45.7	46.2	48.0	No linear change	Not available§	No change
of physical a	ctivity that increase				No linear change	Not available	No change
1	age of student of physical a sys before the	age of students who did not partic of physical activity that increase by before the survey) 17.1 age of students who were physical	45.4 45.7 age of students who did not participate in at least 60 of physical activity that increased their heart rate and the survey) 17.1 16.4 age of students who were physically active at least 60 of physical act	45.4 45.7 46.2 age of students who did not participate in at least 60 minutes of physical of physical activity that increased their heart rate and made them breatys before the survey) 17.1 16.4 16.7 age of students who were physically active at least 60 minutes per day	45.4 45.7 46.2 48.0 age of students who did not participate in at least 60 minutes of physical activity on at of physical activity that increased their heart rate and made them breathe hard some of anys before the survey)	45.4 45.7 46.2 48.0 No linear change age of students who did not participate in at least 60 minutes of physical activity on at of physical activity that increased their heart rate and made them breathe hard some of anys before the survey) 17.1 16.4 16.7 13.5 No linear change age of students who were physically active at least 60 minutes per day on all 7 days (in	45.4 45.7 46.2 48.0 No linear change Not available age of students who did not participate in at least 60 minutes of physical activity on at of physical activity that increased their heart rate and made them breathe hard some of anys before the survey) 17.1 16.4 16.7 13.5 No linear change Not available age of students who were physically active at least 60 minutes per day on all 7 days (in

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

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		Health Risk Behavi	or and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
QN79: Percent	age of students who	watched television 3	or more hours per	day (on an average	e school day)			
32.4		25.6	21.2	21.1	19.8	Decreased, 2009-2019	Not available [§]	No change
	me spent on things	played video or com such as Xbox, PlaySt	ation, an iPad or o		hone, texting,			,
YouTube, Insta school day)	gram, Facebook, or		_		12.5	Increased 2000 2010	Not available	No changa
YouTube, Insta	gram, Facebook, or	other social media, for 32.7	37.4	42.3	42.5	Increased, 2009-2019	Not available	No change
YouTube, Insta chool day) 22.9 2N81: Percent			37.4	42.3		Increased, 2009-2019	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

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-	Health Risk Behavi	or and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019 †
2011	2013	2015	2017	2019			
ge of students in school)	who attended physic	cal education (PE)	classes on all 5 day	s (in an average			
	30.9	23.0	28.6	26.9	No linear change	Not available§	No change
	ge of students in school)	ge of students who attended physicin school)	ge of students who attended physical education (PE) in school) 30.9 23.0	ge of students who attended physical education (PE) classes on all 5 day in school)	ge of students who attended physical education (PE) classes on all 5 days (in an average in school)	ge of students who attended physical education (PE) classes on all 5 days (in an average in school)	ge of students who attended physical education (PE) classes on all 5 days (in an average in school)

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

		Health Risk Behavi	ior and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
	age of students who	saw a dentist (for a crey)	check-up, exam, te	eth cleaning, or oth	er dental work,			
			69.2	69.9	68.5	No linear change	Not available [§]	No change
		-		:				
QNNODNT: Plental work)	ercentage of studen	ts who never saw a d	entist (for a check-	up, exam, teeth clea	aning, or other			
	ercentage of studen	ts who never saw a d	entist (for a check- 2.8	up, exam, teeth clea	aning, or other 2.9	No linear change	Not available	No change
ental work)		ts who never saw a de	2.8	2.3	2.9	No linear change	Not available	No change
ental work)			2.8	2.3	2.9	No linear change Increased, 2009-2019	Not available Not available	No change
ental work) (N87: Percental 20.6	age of students who	had ever been told b	2.8 by a doctor or nurse 22.0	2.3 e that they had asthr 26.7	2.9 ma	<u>-</u>		,

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

		Health Risk Behav	ior and Percentage	es		Linear Change*	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019	<u> </u>		
QN90: Percent car)	age of students who	rarely or never wear	r a seat belt when di	riving (among stude	ents who drive a			
		10.6	7.0	8.9	7.3	No linear change	Not available§	No change
		o rode in a car or other 1 day during the 30			texting or			
-mailing while ON92: Percent	driving (on at least		days before the sur-	65.1	63.7	No linear change	Not available	No change
-mailing while N92: Percent	driving (on at least	1 day during the 30	days before the sur-	65.1	63.7	No linear change No linear change	Not available Not available	No change
-mailing while ON92: Percent alue in exchan ON94: Percent	age of students who	tried to quit smokin	days before the sur	o stay, food, or som	ething else of 4.0			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

2011	2013	2015	2017	2019			
of students who	used electronic-vap	oor products mainly	because a friend or	family member			
			7.3	8.2	No linear change	Not available [§]	No chang
	-			of students who used electronic-vapor products mainly because a friend or	of students who used electronic-vapor products mainly because a friend or family member	of students who used electronic-vapor products mainly because a friend or family member	of students who used electronic-vapor products mainly because a friend or family member

4.1

4.6

No linear change

Not available

QN98: Percentage of students who reported that their school has special groups or classes for students who

2.8

4.0

want to quit using tobacco

Total

No change

Decreased

QN99: Percentage of students who reported that someone smoked tobacco products in the student's home while the student was there (on at least one day during the 7 days before the survey)

28.7 30.9 24.3 No linear change Not available

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

		Health Risk Behav	ior and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
	ntage of students wharing the 7 days before	no rode in a vehicle vore the survey)	where someone was	smoking a tobacco	product (on at			
			32.3	36.6	27.4	No linear change	Not available§	Decreased
			32.3	30.0	27.4	140 illicar change	Not available	Decreased
			32.3	30.0	27.4	Two inical change	Not available	Decreased
ndoor or outdo	or public places (su	no breathed the smok ch as school building during the 7 days be	e from someone whose, stores, restaurant	no was smoking tob	pacco products in		Not available	Becteased
ndoor or outdo	or public places (su	ch as school building	e from someone whose, stores, restaurant	no was smoking tob	pacco products in		Not available	Decreased
ndoor or outdoots, and parks, QN102: Percen	or public places (su on at least one day atage of students wh	ch as school building during the 7 days be	e from someone where some someone where survey 48.6	no was smoking tob ts, stadiums, school 50.6	pacco products in grounds, parking 40.2			
ndoor or outdoots, and parks, 2N102: Percente place where	or public places (su on at least one day atage of students wh	ch as school building during the 7 days be no breathed the smok least one day during	e from someone where some someone where survey 48.6	no was smoking tob ts, stadiums, school 50.6	pacco products in grounds, parking 40.2			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

		Health Risk Behavi	ior and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
N103: Percer where people w		o think employers sh	ould never allow si	moking in indoor a	reas in places			
			86.0	87.7	77.7	Decreased, 2015-2019	Not available§	Decreased
N110: Percer	ntage of students wh	o had been told by a	doctor or nurse tha	t they had asthma a	and who still have	· · · · · · · · · · · · · · · · · · ·		
11.6		12.1	11.1	13.2	12.6	No linear change	Not available	No change
		o have ever been tau nave ever had asthma		octor how to take c	are of or manage			
		53.8	53.0	56.6	52.1	No linear change	Not available	No change
N112: Percer		o used an indoor tandoor tandoor tandoor tandoor tandoor tandoor more						

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

		Health Risk Beha	vior and Percentag	ges		Linear Change [*]	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
urting for 12 h	ours or more after b	no had a sunburn (co being outside in the he 12 months before	sun or after using a					
				53.7	60.3	Increased, 2017-2019	Not available§	No change
					,			_
		no most of the time of hopeless, angry, or a		nd of help they need	d (among students			-
				and of help they need 26.0	d (among students	Decreased, 2015-2019	Not available	No chang
who report havi	ng felt sad, empty,	hopeless, angry, or a	anxious) 26.0	26.0	21.7	Decreased, 2015-2019	Not available	No change
who report havi	ng felt sad, empty,	hopeless, angry, or a	anxious) 26.0	26.0	21.7	Decreased, 2015-2019 No linear change	Not available Not available	No chang
N116: Percer during the 7 da	ng felt sad, empty, tage of students wh ys before the surve	hopeless, angry, or a	26.0 e with at least one of 61.9	26.0 If their parents on for 58.5	21.7 our or more days 62.4	·		

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Total Site-Added		Health Risk Behav	vior and Percentag	ges		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019			
		o participate in scho week when they are		more hours (such a	s sports, band,	No linear change	Not available [§]	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Male

		Health Risk Behavi	ior and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
QN8: Percentag	ge of students who	rarely or never wore	a seat belt (when ri	ding in a car driven	by someone else))		
15.1		13.5	11.9	12.0	9.0	Decreased, 2009-2019	Not available§	No change
one or more tim		rode with a driver whys before the survey)				D 1 2000 2010		
25.6		19.2	19.9	16.6	15.9	Decreased, 2009-2019	Not available	No change
	ng the 30 days before	drove a car or other ore the survey, among						,
		10.8	7.7	6.6	4.9	Decreased, 2013-2019	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	or and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019	_		
	lays before the surve	o texted or e-mailed w						
		46.5	46.7	44.5	48.3	No linear change	Not available§	No change
QN12: Percent 30 days before		o carried a weapon (su	ich as a gun, knife,	or club, on at least	1 day during the			
25.7		33.2	33.8	27.8	27.8	No linear change	Not available	No change
25.7								
QN13: Percent	tage of students who	o carried a weapon on re the survey)	school property (s	uch as a gun, knife,	or club, on at			
QN13: Percent			school property (s	uch as a gun, knife,	or club, on at	No linear change	Not available	No change
QN13: Percent least 1 day duri	ing the 30 days before		9.1	5.5	5.9	No linear change	Not available	No change
QN13: Percent least 1 day duri	ing the 30 days before	re the survey)	9.1 because they felt u	5.5	5.9	No linear change	Not available	No

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behav	ior and Percentag	res		Linear Change*	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
N17: Percenta urvey)	age of students who	were in a physical f	ight (one or more ti	imes during the 12	months before the			
				24.2	32.4	Increased, 2017-2019	Not available§	Increased
	age of students who	were ever physically	y forced to have se	xual intercourse (wh	hen they did not			:
QN19: Percenta want to) 4.4	age of students who	were ever physically	y forced to have see	xual intercourse (wl	hen they did not 5.3	No linear change	Not available	No chang
A.4 QN22: Percenta omeone they will with an one of the with an one of	age of students who age of students who vere dating or going object or weapon] o ent out with someon	5.2 experienced physica out with [counting s ne or more times du	4.7 al dating violence (luch things as being ring the 12 months	7.1 being physically hughit, slammed into before the survey,	5.3 rt on purpose by something, or	No linear change	Not available	No chang

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

ale jury and Violen	ace	Health Risk Behavi	ior and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019 [†]
2009	2011	2013	2015	2017	2019			
QN23: Percenta survey)	age of students who	were bullied on scho	ool property (ever o	luring the 12 month	as before the			
21.2		20.0	19.6	19.5	17.3	No linear change	Not available§	No change
		were electronically lal media, ever during			h texting,			
			11.7	14.8	14.3	No linear change	Not available	No change
		felt sad or hopeless , ever during the 12 i			row so that they			
21.3		16.7	23.6	24.2	24.0	No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

		Health Risk Behav	ior and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
QN26: Percenta the survey)	age of students who	seriously considered	d attempting suicide	e (ever during the 1	2 months before			
10.6		10.1	13.2	17.5	14.5	Increased, 2009-2019	Not available§	No change
QN27: Percenta		made a plan about h	now they would atte	empt suicide (during	g the 12 months			
8.6		7.5	11.0	14.2	13.1	Increased, 2009-2019	Not available	No change
QN28: Percenta	age of students who	attempted suicide (c	one or more times d	luring the 12 month	as before the			
5.0		5.4	9.2	8.3	6.9	No linear change	Not available	No change
		had a suicide attempse (during the 12 mo			or overdose that			
1.6		1.0	3.1	3.2	1.8	No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

bacco Use		Health Risk Behavi	ior and Percentage	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
QN31: Percent	age of students who	first tried cigarette s	moking before age	13 years (even one	or two puffs)			
				10.4	10.0	No linear change	Not available§	No change
								:
QN32: Percent	age of students who	currently smoked ci	garettes (on at least	1 day during the 3	0 days before the			
	age of students who	currently smoked ci	garettes (on at least	1 day during the 3	0 days before the	Decreased, 2009-2019	Not available	No change
survey) 18.8	rcentage of students	•	13.7	10.2	6.8		Not available	No change
survey) 18.8 QNFRCIG: Per	rcentage of students	16.1	13.7	10.2	6.8		Not available Not available	No change
18.8 18.8 QNFRCIG: Per 30 days before to 7.0	rcentage of students the survey)	16.1 s who currently smok	13.7 ed cigarettes freque	10.2 ently (on 20 or mor 2.9	6.8 e days during the 0.7	Decreased, 2009-2019		

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

		Health Risk Beha	vior and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
	ipes, vaping pens, e-		onic vapor product (th pens [such as blu,					
•	-		46.7	40.4	49.7	No linear change	Not available [§]	No chang
pipes, vape pi	ipes, vaping pens, e-	hookahs, and hooka	lectronic vapor produle pens [such as blu, e 30 days before the	NJOY, Vuse, Mar		No linear change	Not available	Increase
-pipes, vape pi 'apin Plus, eGo QNFREVP: Pe	ipes, vaping pens, e- o, and Halo], on at le	hookahs, and hooka east 1 day during th	th pens [such as blu, e 30 days before the	NJOY, Vuse, Mar survey) 13.6	kTen, Logic, 23.1		Not available	Increase

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Iale obacco Use		Health Risk Behav	ior and Percentage	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019			
QNDAYEVP: the 30 days befo	Percentage of stude ore the survey)	nts who currently us	ed electronic vapor	products daily (on	all 30 days during			
·	•		2.5	2.5	8.4	Increased, 2015-2019	Not available§	Increased
	entage of students when the 30 days before the		cigarettes or used e	lectronic vapor pro	ducts (on at least			
i day daring til	e 50 days before the	<i>541 (0)</i>	31.2	18.9	25.4	No linear change	Not available	No change
dissolvable toba	age of students who acco products [such on at least 1 day du	as Copenhagen, Gri	zzly, Skoal, or Cam					
				8.1	9.4	No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

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Not available [§]	Decreased
,	+
Not available	Decreased
eased, 2009-	eased, 2009-2019 Not available
	2019 Not available

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

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		Health Risk Behavi	or and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
N40: Percentage	of students who	had their first drink	of alcohol before a	ge 13 years (other t	han a few sips)			
25.8		22.6	20.5	19.9	17.0	Decreased, 2009-2019	Not available [§]	No change
QN41: Percentage during the 30 days b		currently drank alcoly)	hol (at least one dr	ink of alcohol, on a	t least 1 day			
39.5		33.8	34.8	27.5	24.7	Decreased, 2009-2019	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Male **Alcohol and Other Drug Use Health Risk Behavior and Percentages** Linear Change* Quadratic Change* Change from 2017-2019 † 2009 2011 2013 2015 2017 2019 QN44: Percentage of students who usually got the alcohol they drank by someone giving it to them (during the 30 days before the survey, among students who currently drank alcohol) 39.9 No linear change 36.5 28.8 35.4 36.6 Not available§ No change QN47: Percentage of students who currently used marijuana (one or more times during the 30 days before the survey) 22.7 23.7 20.0 19.8 16.7 Decreased, 2009-2019 Not available No change QN49: Percentage of students who ever took prescription pain medicine without a doctor's prescription or differently than how a doctor told them to use it (counting drugs such as codeine, Vicodin, OxyContin, Hydrocodone, and Percocet, one or more times during their life) 14.0 22.2 Increased, 2017-2019 Not available Increased

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Male Alcohol and Othe	<u> </u>	Health Risk Behav	vior and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019	<u> </u>		
QN52: Percent		ever used heroin (a	lso called "smack,"	"junk," or "China V	White," one or			
				3.7	2.9	No linear change	Not available§	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

		Health Risk Behavi	or and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
QN58: Percenta	age of students who	ever had sexual inte	rcourse					
50.2		45.4	41.2	41.2	44.6	Decreased, 2009-2019	Not available§	No change
QN59: Percenta	age of students who	had sexual intercour	rse for the first time	e before age 13 year	rs			
7.9		5.4	5.3	3.6	5.9	No linear change	Not available	No change
	nge of students who	were currently sexuathe survey)	ally active (had sex	ual intercourse with	h at least one			
34.9		32.9	29.2	28.9	32.4	No linear change	Not available	No change
	age of students who	drank alcohol or use	d drugs before last	sexual intercourse	(among students			
27.3		23.5	22.4	17.0	24.2	No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

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2015 g last sexual interes 59.8	2017 course (among stud	2019 lents who were			
59.8	53.0	65.0			
		00.0	No linear change	Not available§	No change
lls before last sexu	nal intercourse (to p	revent pregnancy,			
18.8	18.9	23.7	No linear change	Not available	No change
	18.8	18.8 18.9 such as Mirena or ParaGard) or impla	18.8 18.9 23.7 such as Mirena or ParaGard) or implant (such as o prevent pregnancy, among students who were	18.8 18.9 23.7 No linear change such as Mirena or ParaGard) or implant (such as	18.8 18.9 23.7 No linear change Not available such as Mirena or ParaGard) or implant (such as

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	or and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019	_		
oirth control rin		nts who used a shot (s g) before last sexual						
		1.7	2.5	6.1	3.7	No linear change	Not available§	No change
)NOTHHPL: 1	Percentage of stude	nts who used birth co	ntrol pills; an IUD	(such as Mirena or	ParaGard) or			
implant (such as	s Implanon or Nexp ch as NuvaRing) be	nts who used birth co lanon); or a shot (suc fore last sexual interc	h as Depo-Provera), patch (such as O	rthoEvra), or birth	Increased, 2013-2019	Not available	No change
implant (such as control ring (such currently sexual QNDUALBC: pills; an IUD (sub-popo-Provera),	s Implanon or Nexp ch as NuvaRing) be lly active) Percentage of stude uch as Mirena or Pa patch (such as Orth	lanon); or a shot (suc fore last sexual interc	h as Depo-Provera course (to prevent p 25.4 condom during last such as Implanon o rol ring (such as Ni	26.3 t sexual intercourse or Nexplanon); or a uvaRing) before las	and birth control shot (such as	Increased, 2013-2019	Not available	No chango

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	ior and Percentage	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019			
NIDCNONE, D	ercentage of stude	nts who did not use a	any method to previ	ant pragnancy durit	ag lost sovuel			
		ere currently sexuall		ent pregnancy durn	ig iasi sexuai			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

Not enough years of data to calculate.

		Health Risk Behavi	or and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019	_		
		who were overweight ic reference data from			ile for body mass			
147		14.7	14.3	15.3	15.2	No linear change	Not available¶	No change
14.7	roontogo of students							
QNOBESE: Pe		s who had obesity (>= in the 2000 CDC grow 18.5	= 95th percentile fo			No linear change	Not available	
QNOBESE: Pe and age-specific 18.2	e reference data from	s who had obesity (>= n the 2000 CDC grow	= 95th percentile fo wth charts) [§] 15.9	or body mass index 19.0	based on sex- 22.7		Not available	No change
QNOBESE: Pe and age-specific 18.2 QN69: Percenta	e reference data from	s who had obesity (>= n the 2000 CDC grow 18.5	= 95th percentile fo wth charts) [§] 15.9	or body mass index 19.0	based on sex- 22.7		Not available Not available	
QNOBESE: Pe and age-specific 18.2 QN69: Percental days before the 27.1	e reference data from age of students who survey)	s who had obesity (>= n the 2000 CDC grov 18.5 did not drink fruit ju	= 95th percentile for th charts) [§] 15.9 ice (100% fruit jui	19.0 ces one or more tin	based on sex- 22.7 nes during the 7 30.6	No linear change		No chang

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

Not enough years of data to calculate.

		Health Risk Behav	ior and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
-	•	no did not eat fruit or ays before the survey		uices (such as orang	ge juice, apple			
8.6		8.5	7.4	8.4	8.7	No linear change	Not available§	No chang
orange juice, ap		no ate fruit or drank i	ys before the surve	y)	•			
54.0		57.2	55.1	53.9	52.1	No linear change	Not available	No chang
		no ate fruit or drank i			r day (such as			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	or and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019	<u> </u>		
QN71: Percenta survey)	age of students who	did not eat green sal	ad (one or more tir	mes during the 7 da	ys before the			
41.7		45.0	48.5	51.0	47.8	Increased, 2009-2019	Not available§	No change
QN72: Percenta	age of students who	did not eat potatoes	(one or more times	s during the 7 days	pefore the survey)	1 1		
26.7		25.2	32.6	33.4	32.8	Increased, 2009-2019	Not available	No change
	age of students who	25.2 did not eat carrots (o		,		Increased, 2009-2019	Not available	No change
	age of students who			,		Increased, 2009-2019 No linear change	Not available Not available	No chang
QN73: Percenta 52.9		did not eat carrots (o	one or more times of 52.8	during the 7 days be	efore the survey) 54.0	·		

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	or and Percentage	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
		who did not eat veger ots, or other vegetab						
8.6		6.1	6.8	9.0	7.3	No linear change	Not available [§]	No chang
		who ate vegetables on bes, or potato chips],						
excluding Frenche survey) 60.7		60.9	60.2	55.8	59.8	No linear change	Not available	No chan
60.7 2NVEG2: Perc		who ate vegetables twoes, or potato chips],	vo or more times po	er day (green salad,	potatoes	No linear change	Not available	No chan

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	or and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
		who ate vegetables the pes, or potato chips],						
16.3		10.7	12.1	11.0	10.1	Decreased, 2009-2019	Not available [§]	No chang
	age of students who	did not drink milk (o	·		10.1	Decreased, 2009-2019	Not available [§]	No chang
	age of students who		·		18.1	Decreased, 2009-2019 Increased, 2009-2019	Not available [§] Not available	No chang
QN76: Percenta 14.0 QNMILK1: Per Irank in a glass	rcentage of students	did not drink milk (o 13.8 who drank one or mon, or with cereal and	during the 7 days be 14.8	efore the survey) 20.9 v of milk (counting)	18.1	Increased, 2009-2019		

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	or and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
lrank in a glass		s who drank three or on, or with cereal and ore the survey)						
20.2			12.0					
20.2		16.0	13.8	8.5	10.4	Decreased, 2009-2019	Not available [§]	No change
	age of students who	16.0 did not eat breakfas				Decreased, 2009-2019	Not available [§]	No change
	age of students who					Decreased, 2009-2019 No linear change	Not available [§] Not available	No change
QN77: Percenta		did not eat breakfas	t (during the 7 days	before the survey)	17.5			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

eysically active at least or heart rate and made the state of the stat	60 minutes per day em breathe hard son	on 5 or more days (in any		
heart rate and made the	em breathe hard son	me of the time durin			
54.2 51.9	52.7	7 50.1			
			No linear change	Not available§	No change
7)	rt rate and made the	em breathe hard som	ne of	Not available	Decreased
(v	14.2 13.5	14.2 13.5 15.5 vere physically active at least 60 minutes p	14.2 13.5 15.5 11.5 vere physically active at least 60 minutes per day on all 7 days		14.2 13.5 15.5 11.5 No linear change Not available vere physically active at least 60 minutes per day on all 7 days (in

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

		Health Risk Behavi	or and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
QN79: Percent	age of students who	watched television 3	or more hours per	day (on an average	e school day)			
35.0		26.8	18.1	20.0	18.6	Decreased, 2009-2019	Not available§	No change
	me spent on things	played video or com such as Xbox, PlaySt	ation, an iPad or o	ther tablet, a smartp	hone, texting,			
	gram, Facebook, or	other social media, for 33.5	37.1	41.8	45.1	Increased, 2009-2019	Not available	No change
YouTube, Instaction (CouTube, Instaction) (C			37.1	41.8	45.1	Increased, 2009-2019	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

		Health Risk Behavi	or and Percentag	Linear Change*	Quadratic Change*	Change from 2017-2019 †		
2009	2011	2013	2015	2017	2019	<u> </u>		
NDI VDE: Do	ercentage of students	who attended physic	and advention (DE)	-111 5 -1				
		s who attenued physic	cai education (PE)	classes on all 5 day	's (in an average			
	were in school)	37.0	28.2	32.3	28.7	No linear change	Not available [§]	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Mala

		Health Risk Behavi	ior and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
	age of students who	saw a dentist (for a crey)	check-up, exam, te	eth cleaning, or oth	er dental work,			
			65.4	67.5	67.0	No linear change	Not available§	No change
QNNODNT: Polental work)	ercentage of studen	ts who never saw a d	entist (for a check-	up, exam, teeth clea	aning, or other			
	ercentage of studen	ts who never saw a d	entist (for a check-	up, exam, teeth clear	aning, or other 3.1	No linear change	Not available	No change
ental work)		ts who never saw a do	3.8	2.5	3.1	No linear change	Not available	No change
lental work)			3.8	2.5	3.1	No linear change No linear change	Not available Not available	No change
ental work) N87: Percenta 21.6	age of students who	had ever been told b	3.8 by a doctor or nurse 23.5	2.5 e that they had asthr	3.1 ma	<u>-</u>		

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

		Health Risk Behav	ior and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019			
QN90: Percent	age of students who	rarely or never wear	r a seat belt when d	riving (among stud	ents who drive a			
		13.3	10.2	12.1	7.3	Decreased, 2013-2019	Not available [§]	No change
		o rode in a car or othe			texting or			
		o rode in a car or othe 1 day during the 30			texting or 57.6	No linear change	Not available	No chang
-mailing while	age of students who		days before the sur	vey) 58.9	57.6	No linear change	Not available	No change
mailing while	age of students who	1 day during the 30	days before the sur	vey) 58.9	57.6	No linear change No linear change	Not available Not available	No chang
-mailing while ON92: Percent alue in exchan	age of students who	1 day during the 30	days before the sur	58.9 5 stay, food, or som 6.1	57.6 ething else of 3.3			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

Missouri High School Survey 10-year Trend Analysis Report

		Health Risk Behav	ior and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
	tage of students who	have ever participat	ed in a program to	help them quit usin	g tobacco (among			
		14.3	16.4	10.4	14.4	No linear change	Not available§	No change
QN98: Percent want to quit usi		reported that their s	chool has special gr	oups or classes for	students who 4.5	No linear change	Not available	No chang
		reported that someo			dent's home			
			32.1	29.4	22.9	Decreased, 2015-2019	Not available	Decreased
	ntage of students wh	o rode in a vehicle v	where someone was	smoking a tobacco	product (on at			
	uring the 7 days before	ore the survey)						

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

		Health Risk Behav	ior and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change fro 2017-201
2009	2011	2013	2015	2017	2019			
ndoor or outdo	or public places (su	ho breathed the smok uch as school building during the 7 days be	gs, stores, restauran					
			45.4	43.2	33.0	Decreased, 2015-2019	Not available [§]	Decrease
		ho breathed the smok						
ne place where		t least one day during				No linear change	Not available	No chang
ne place where vorked during	they worked (on a the 7 days before the 7 days before the 7 days days days before the 7 days days before the 7 days befo	t least one day during	g the 7 days before t	he survey, among s	students who 23.0	No linear change	Not available	No chang
ne place where vorked during QN103: Percei	they worked (on a the 7 days before the 7 days before the 7 days days days before the 7 days days before the 7 days befo	t least one day during ne survey)	g the 7 days before t	he survey, among s	students who 23.0	No linear change Decreased, 2015-2019	Not available Not available	No chang
ne place where vorked during 2N103: Percent where people w	they worked (on a the 7 days before the ntage of students where	t least one day during ne survey)	27.0 hould never allow s 82.1	29.1 moking in indoor a 85.6	reas in places 74.6			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Mala

		Health Risk Behavi	ior and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
		no have ever been tau have ever had asthma		octor how to take c	are of or manage	,		
		47.3	49.9	48.3	50.5	No linear change	Not available§	No change
		o used an indoor tandoor tando	times during the 1	2 months before th	e survey)	-		
		o used an indoor tan				No linear change	Not available	No change
2000th [not coun 2001] Percenturing for 12 h	nting getting a spray	o used an indoor tan	8.2 anting even a small an or after using a	2 months before th 8.1 part of the skin tur	e survey) 11.1 ning red or	-	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Mala

		Health Risk Behav	ior and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019	_		
		o most of the time o		d of help they need	l (among students	,		
			22.8	20.9	19.7	No linear change	Not available§	No change
	ntage of students what surve	to ate dinner at home	e with at least one of 60.6	f their parents on fo	our or more days	No linear change	Not available	No change
N117: Percer nem a lot of en		o strongly agree or a	agree that their teach	hers really care abo	out them and give			
			56.0	65.3	59.0	No linear change	Not available	No change
		o participate in scho	ol activities one or	more hours (such a	s sports, band,			
		week when they are						

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

ıry and Violen	ce	Health Risk Behavi	or and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
N8: Percentag	ge of students who	arely or never wore	a seat belt (when ri	ding in a car driven	by someone else))		
8.6		9.0	4.4	5.9	7.8	No linear change	Not available [§]	No chang
		rode with a driver whys before the survey)		g alcohol (in a car o	or other vehicle,			
23.4		19.4	16.8	14.7	15.5	Decreased, 2009-2019	Not available	No chang
	ng the 30 days befo	drove a car or other re the survey, among						
-	•	6.7	5.8	3.6	3.2	Decreased, 2013-2019	Not available	No chan

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

male jury and Violen	nce	Health Risk Behavi	or and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
	ays before the surve	texted or e-mailed wy, among students wh						
		44.9	47.5	47.7	43.0	No linear change	Not available§	No change
30 days before		carried a weapon (su						
5.9		10.6	10.8	11.5	9.4	Increased, 2009-2019	Not available	No change
	age of students who	o carried a weapon on re the survey)	school property (s	uch as a gun, knife,	, or club, on at			
			2.9	2.6	3.0	No linear change	Not available	No change
ON15 D		o did not go to school		unsafe at school or o	on their way to or			
	n at least 1 day durir	ig the 30 days before						

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

emale njury and Violenc		Health Risk Behav	ior and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019			
QN17: Percenta survey)	ge of students who	were in a physical f	ight (one or more ti	mes during the 12	months before the			
sairey)				14.4	16.2	No linear change	Not available [§]	No change
QN19: Percenta want to)	ge of students who	were ever physicall	y forced to have sex	xual intercourse (w	hen they did not			
12.0		15.4	11.9	13.3	14.6	No linear change	Not available	No change
someone they we injured with an o	ere dating or going object or weapon] o	experienced physica out with [counting sone or more times du ne during the 12 mon	uch things as being ring the 12 months	hit, slammed into before the survey,	something, or			
		11.6	10.2	11.4	8.0	No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

male ury and Violen	ce	Health Risk Behavi	ior and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
QN23: Percenta survey)	age of students who	were bullied on scho	ool property (ever o	luring the 12 month	ns before the			
24.5		30.4	22.9	27.0	24.8	No linear change	Not available§	No change
		were electronically all media, ever during			h texting,			
			21.4	23.8	21.9	No linear change	Not available	No change
		felt sad or hopeless, ever during the 12 i			row so that they			
33.2		38.4	31.3	38.3	41.3	No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

		Health Risk Behav	or and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
QN26: Percenta the survey)	age of students who	seriously considered	l attempting suicide	e (ever during the 1	2 months before			
20.6		18.6	18.9	24.1	20.2	No linear change	Not available§	No chang
QN27: Percenta		made a plan about h	ow they would atte	empt suicide (during	g the 12 months			,
before the surve	3)							
before the surve	<i>37</i>	16.4	15.8	16.6	13.9	No linear change	Not available	No chang
14.2		16.4 attempted suicide (c				No linear change	Not available	No chang

2.6

3.2

3.1

No linear change

2.8

3.3

No change

Not available

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

nale bacco Use								
		Health Risk Behavi	or and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change fron 2017-2019
2009	2011	2013	2015	2017	2019			
QN31: Percenta	age of students who	first tried cigarette s	moking before age	13 years (even one	or two puffs)			
				9.2	8.3	No linear change	Not available§	No change
	age of students who	currently smoked ci	garettes (on at least	1 day during the 3	0 days before the			,
	age of students who	currently smoked ci	garettes (on at least	1 day during the 30	0 days before the	Decreased, 2009-2019	Not available	No chang
urvey) 19.1 QNFRCIG: Per	rcentage of students	•	8.1	8.1	6.0	Decreased, 2009-2019	Not available	No chang
urvey) 19.1 QNFRCIG: Per	rcentage of students	13.2	8.1	8.1	6.0	Decreased, 2009-2019 Decreased, 2009-2019	Not available Not available	No chang No chang
Urvey) 19.1 QNFRCIG: Per 00 days before t 6.6	rcentage of students the survey)	who currently smoke	8.1 ed cigarettes freque 2.8	8.1 ently (on 20 or more 2.4	6.0 e days during the			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

^{*}Not enough years of data to calculate.

		Health Risk Beha	vior and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
	ipes, vaping pens, e-		onic vapor product (hh pens [such as blu,					
			35.0	39.5	49.3	Increased, 2015-2019	Not available§	Increased
-pipes, vape pi	ipes, vaping pens, e-	hookahs, and hooka	electronic vapor prod ah pens [such as blu, e 30 days before the 16.5	NJOY, Vuse, Mar		No linear change	Not available	Increased
-pipes, vape pi /apin Plus, eGo	ipes, vaping pens, e- o, and Halo], on at l	hookahs, and hooka east 1 day during th s who currently used	ah pens [such as blu, e 30 days before the	NJOY, Vuse, Mar survey) 7.9	kTen, Logic,	No linear change	Not available	Increased

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Female Tobacco Use		Health Risk Behav	ior and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019 [†]
2009	2011	2013	2015	2017	2019			
QNDAYEVP: the 30 days befo	Percentage of stude ore the survey)	nts who currently us	ed electronic vapor	products daily (on	all 30 days during			
			1.1	1.5	5.2	Increased, 2015-2019	Not available§	Increased
	ntage of students wle 30 days before the		cigarettes or used e	lectronic vapor pro	oducts (on at least			,
, 2 · ·		,	20.9	13.5	19.6	No linear change	Not available	Increased
dissolvable toba	age of students who acco products [such on at least 1 day du	as Copenhagen, Gri	zzly, Skoal, or Cam					
				3.7	1.3	Decreased, 2017-2019	Not available	Decreased

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Female

		Health Risk Behavi	or and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019	<u> </u>		
	age of students who	currently smoked ci	gars (cigars, cigaril	los, or little cigars,	on at least 1 day			
10.5		9.3	7.1	6.8	3.9	Decreased, 2009-2019	Not available§	Decreased
QNTB2: Perce before the surve		no currently smoked	cigarettes or cigars	(on at least 1 day of	during the 30 days			+
23.0		17.7	12.2	10.4	7.5	Decreased, 2009-2019	Not available	No change
	cco, shisha or hooka	tried to quit using al th tobacco, and electred any tobacco produ	onic vapor product	s, ever during the 1	12 months before			
	ing students who us	•						

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Female Alcohol and Other Drug Use Health Risk Behavior and Percentages Linear Change* Quadratic Change* Change from 2017-2019 † 2009 2011 2013 2015 2017 2019 QN40: Percentage of students who had their first drink of alcohol before age 13 years (other than a few sips) 14.2 14.7 16.2 16.9 14.8 No linear change Not available§ No change QN41: Percentage of students who currently drank alcohol (at least one drink of alcohol, on at least 1 day during the 30 days before the survey) 39.1 37.4 34.3 36.1 30.9 Decreased, 2009-2019 Not available No change ON42: Percentage of students who currently were binge drinking (had four or more drinks of alcohol in a row for female students or five or more drinks of alcohol in a row for male students, within a couple of hours, on at least 1 day during the 30 days before the survey) 18.8 16.6 No linear change Not available No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

	Ü	Health Risk Behavi	ior and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
		o usually got the alcol students who currentl		omeone giving it to	them (during the			
45.9		39.2	44.2	47.6	41.0	No linear change	Not available§	No change
QN47: Percenta	age of students who	o currently used marij	juana (one or more	times during the 30) days before the			
18.4		17.0	12.6	19.5	15.6	No linear change	Not available	No change
differently than	how a doctor told	o ever took prescription them to use it (counting them to use it (counting the counting the coun	ng drugs such as co	rithout a doctor's prodeine, Vicodin, Ox	rescription or syContin,			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Female Alcohol and Othe	<u> </u>	Health Risk Behav	vior and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019			
QN52: Percent	age of students who	ever used heroin (a	lso called "smack,"	"junk," or "China V	White," one or			
				3.7	1.3	Decreased, 2017-2019	Not available§	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Female

		Health Risk Behavi	ior and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
QN58: Percenta	ige of students who	ever had sexual inte	rcourse					
47.3		40.7	35.1	42.4	43.9	No linear change	Not available§	No change
QN59: Percenta	age of students who	had sexual intercour	rse for the first time	e before age 13 year	rs			
3.4		2.4	2.9	1.2	3.4	No linear change	Not available	No change
	age of students who	were currently sexuathe survey)	ally active (had sex	cual intercourse wit	h at least one			
36.3		31.9	26.1	35.6	33.9	No linear change	Not available	No change
	age of students who	drank alcohol or use	ed drugs before last	sexual intercourse	(among students			
19.4		17.9	18.0	14.3	16.1	No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Female	
Sexual Behaviors	
	Health Risk Behavior

		Health Risk Behavi	or and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019			
QN63: Percenta currently sexual		used a condom during	ng last sexual intere	course (among stud	ents who were			
51.1		51.8	53.5	49.5	48.6	No linear change	Not available [§]	No change
	nge of students who	used birth control pi y sexually active)	lls before last sexu	al intercourse (to pr	revent pregnancy,			
27.0		17.6	27.1	27.4	31.1	No linear change	Not available	No change
	xplanon) before las	its who used an IUD (t sexual intercourse (
		5.2	4.9	5.9	6.1	No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	or and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
birth control rin		nts who used a shot (g) before last sexual						
		7.9	8.7	7.2	10.6	No linear change	Not available§	No change
QNOTHHPL:	Percentage of studer	nts who used birth co	ntrol pills; an IUD	(such as Mirena or	ParaGard) or			·
implant (such as control ring (suc	s Implanon or Nexp ch as NuvaRing) be	nts who used birth co lanon); or a shot (suc fore last sexual interco	h as Depo-Provera), patch (such as O	rthoEvra), or birth	Increased, 2013-2019	Not available	No change
implant (such as control ring (suc currently sexual QNDUALBC: pills; an IUD (stoppo-Provera),	s Implanon or Nexp ch as NuvaRing) be lly active) Percentage of stude uch as Mirena or Pa patch (such as Orth	lanon); or a shot (suc fore last sexual interc	th as Depo-Provera course (to prevent p 40.7 condom during last such as Implanon or rol ring (such as No	t sexual intercourse revealed in Nexplanon); or a uvaRing) before las	and birth control shot (such as	Increased, 2013-2019	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

emale exual Behaviors		Health Risk Behav	ior and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019			
		ents who did not use a		ent pregnancy durir	ng last sexual			
8.7		18.9	10.5	14.9	10.0	No linear change	Not available§	
				2,	10.0	110 micar change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	or and Percentag	es		Linear Change*	Quadratic Change*	Change fron 2017-2019
2009	2011	2013	2015	2017	2019			
		who were overweight ic reference data from			ile for body mass			
			10.4	16.2	17.0	No linear change	Not available [¶]	No change
13.8	Call	16.3	12.4			No filled change	Not available	No chang
NOBESE: Per		s who had obesity (>= in the 2000 CDC grow	= 95th percentile fo			Increased, 2009-2019	Not available	No chang
QNOBESE: Per nd age-specific 10.4 QN69: Percenta	reference data from	s who had obesity (>= n the 2000 CDC grow	= 95th percentile fo wth charts) [§] 10.3	r body mass index 14.8	, based on sex-			
NOBESE: Per nd age-specific 10.4 2N69: Percenta	reference data from	s who had obesity (>= n the 2000 CDC grow 11.1	= 95th percentile fo wth charts) [§] 10.3	r body mass index 14.8	, based on sex-			,
2NOBESE: Per nd age-specific 10.4 2N69: Percental lays before the second 25.0	reference data from age of students who survey)	s who had obesity (>= n the 2000 CDC grov 11.1 did not drink fruit ju	= 95th percentile for wth charts) [§] 10.3 nice (100% fruit juid 34.3	14.8 ces one or more tin	nes during the 7	Increased, 2009-2019	Not available	No chang

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

Not enough years of data to calculate.

		Health Risk Behav	ior and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
-	•	no did not eat fruit or ays before the survey		uices (such as orang	ge juice, apple			
5.5		6.8	5.7	7.4	5.7	No linear change	Not available [§]	No chang
		no ate fruit or drank in the day			r day (such as	Decreased, 2009-2019	Not available	No chang
		no ate fruit or drank			er day (such as			:
		uice, during the 7 da	ys before the surve	y)				

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	ior and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
QN71: Percenta survey)	age of students who	did not eat green sal	ad (one or more tir	nes during the 7 da	ys before the			
32.3		37.6	38.8	40.6	37.6	No linear change	Not available§	No change
N70 D	6	1.1	· · · · · · · · · · · · · · · · · · ·	1 - 1 - 1 - 7 1 1				
2N72: Percenta 31.4	age of students who	did not eat potatoes 30.6	(one or more times	during the 7 days	before the survey) 40.5	Increased, 2009-2019	Not available	No chang
31.4			36.4	34.3	40.5	Increased, 2009-2019	Not available	No chang
31.4		30.6	36.4	34.3	40.5	Increased, 2009-2019 No linear change	Not available Not available	No chang No chang
31.4 QN73: Percenta 53.2	age of students who	30.6 did not eat carrots (o	36.4 one or more times of 57.2	34.3 during the 7 days be 59.7	40.5 efore the survey) 52.0	, ,		

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	or and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
		who did not eat veget ots, or other vegetab						
4.7		6.3	5.5	7.7	5.7	No linear change	Not available [§]	No chang
		 		on day (amaan salad	notatoes			:
excluding Fren	centage of students v ch fries, fried potato	who ate vegetables or bes, or potato chips],						
						Decreased, 2009-2019	Not available	No chang
excluding Frenche survey) 64.2 NVEG2: Percented	ch fries, fried potato	bes, or potato chips],	56.1	getables, during the 54.9 er day (green salad	58.7 , potatoes	Decreased, 2009-2019	Not available	No chan

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	ior and Percentag	es		Linear Change*	Quadratic Change [*]	Change fron 2017-2019
2009	2011	2013	2015	2017	2019			
		who ate vegetables the pes, or potato chips],						
12.2		12.4	8.9	7.9	10.4	Decreased, 2009-2019	Not available§	No change
QN76: Percent	age of students who	did not drink milk (during the 7 days b	efore the survey)				
19.5		22.8	26.3	30.8	34.2	Increased, 2009-2019	Not available	No change
	rcentage of students	who drank one or m						
drank in a glass	or cup, from a cartoring the 7 days befo		counting the nan	p 01 501 . 00	1			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

		Health Risk Behavi	or and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
drank in a glass		who drank three or on, or with cereal and re the survey)						
11.3		6.6	7.1	4.9	3.5	Decreased, 2009-2019	Not available [§]	No change
	age of students who	did not eat breakfass				Decreased, 2009-2019	Not available [§]	No change
	age of students who	,				Decreased, 2009-2019 No linear change	Not available [§] Not available	No change
QN77: Percenta		did not eat breakfas	t (during the 7 days	before the survey)	13.0			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Female Physical Activity Health Risk Behavior and Percentages Linear Change* Quadratic Change* Change from 2017-2019 † 2009 2011 2013 2015 2017 2019 QN78: Percentage of students who were physically active at least 60 minutes per day on 5 or more days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey) 36.3 40.1 39.7 46.0 Increased, 2013-2019 Not available§ No change QNPA0DAY: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey) 20.3 18.8 17.8 15.6 No linear change Not available No change QNPA7DAY: Percentage of students who were physically active at least 60 minutes per day on all 7 days (in any kind of physical activity that increased their heart rate and made them breathe hard some of the time during the 7 days before the survey) 18.0 19.0 21.8 21.3 No linear change Not available No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Famala

		Health Risk Behavi	or and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
N79: Percent	age of students who	watched television 3	or more hours per	day (on an average	e school day)			
29.8		24.5	23.9	22.0	21.2	Decreased, 2009-2019	Not available§	No change
ay (counting ti	me spent on things	played video or com such as Xbox, PlaySt other social media, fo 31.9	ation, an iPad or o	ther tablet, a smartp	hone, texting,	Increased, 2009-2019	Not available	No change
ay (counting ti YouTube, Instago chool day) 16.5 2N81: Percent	ime spent on things gram, Facebook, or	such as Xbox, PlaySt other social media, fo	ation, an iPad or or something that was 38.3	ther tablet, a smartp was not school work 42.9	ohone, texting, c, on an average 40.0	Increased, 2009-2019	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Female

		Health Risk Behavi	or and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019	_		
		s who attended physi-	cal education (PE)	classes on all 5 day	s (in an average			
eek when they 25.4	were in school)	24.4	18.2	24.9	25.3	No linear change	Not available [§]	No change
23.1		2	10.2	2>	23.3	110 imear change	1 tot a vanabie	1 to change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

emale Other		Health Risk Behav	ior and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019	<u> </u>		
	nge of students who	saw a dentist (for a rvey)	check-up, exam, te	eth cleaning, or oth	er dental work,			
			73.2	72.4	70.5	No linear change	Not available§	No change
QNNODNT: Po	ercentage of studen	ts who never saw a d	lentist (for a check-	up, exam, teeth cle	aning, or other			
			1.8	2.0	2.5	No linear change	Not available	No change
QN87: Percenta	age of students who	had ever been told b	by a doctor or nurse	that they had asth	na			,
19.7		26.5	20.6	25.9	24.7	No linear change	Not available	No change

20.4

21.7

No linear change

Not available

QN88: Percentage of students who got 8 or more hours of sleep (on an average school night)

25.5

No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Female

		Health Risk Behav	ior and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019	_		
QN90: Percenta car)	age of students who	rarely or never wear	r a seat belt when d	riving (among stud	ents who drive a			
		7.7	3.5	4.9	6.6	No linear change	Not available§	No change
		o rode in a car or othe 1 day during the 30			texting or			
-mailing while	driving (on at least	1 day during the 30	days before the sur	vey) 71.4	70.0	No linear change	Not available	No change
-mailing while	edriving (on at least		days before the sur	71.4 o stay, food, or som	70.0 ething else of			No change
mailing while N92: Percenta	edriving (on at least	1 day during the 30	days before the sur	vey) 71.4	70.0	No linear change No linear change	Not available Not available	No chang
-mailing while 2N92: Percental alue in exchan	age of students who	1 day during the 30	days before the sur	71.4 o stay, food, or som 4.5	70.0 ething else of 4.2			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Female

		Health Risk Behav	ior and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019	_		
	age of students who	have ever participat	ed in a program to	help them quit usin	g tobacco (among			
		6.5	10.7	7.6	12.9	No linear change	Not available§	No change
N98 Percent	age of students who	manantad that thain a	ahaal haa amaaial a		atudanta who			
		2.7	1.3	2.4	4.8	No linear change	Not available	Increased
vant to quit usi	ng tobacco age of students who	-	1.3	2.4 products in the stu	4.8	No linear change	Not available	Increased
ant to quit usi	ng tobacco age of students who	2.7 preported that someo	1.3	2.4 products in the stu	4.8	No linear change No linear change	Not available Not available	Increased No chang
Nant to quit using the property of the studer QN100: Percent	age of students who	2.7 o reported that someo east one day during to rode in a vehicle w	1.3 one smoked tobacco he 7 days before the 24.9	2.4 products in the stu e survey) 31.9	4.8 dent's home			,

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Female Site-Added **Health Risk Behavior and Percentages** Linear Change* Quadratic Change* Change from 2017-2019 [†] 2009 2011 2013 2015 2017 2019 QN101: Percentage of students who breathed the smoke from someone who was smoking tobacco products in indoor or outdoor public places (such as school buildings, stores, restaurants, stadiums, school grounds, parking lots, and parks, on at least one day during the 7 days before the survey) 51.5 58.0 47.4 No linear change Not available§ Decreased QN102: Percentage of students who breathed the smoke from someone who was smoking tobacco products in the place where they worked (on at least one day during the 7 days before the survey, among students who worked during the 7 days before the survey) 15.2 24.5 20.5 No linear change Not available No change QN103: Percentage of students who think employers should never allow smoking in indoor areas in places where people work 89.8 90.1 81.5 Decreased, 2015-2019 Not available Decreased

15.2

16.2

No linear change

Not available

16.3

QN110: Percentage of students who had been told by a doctor or nurse that they had asthma and who still have

12.3

asthma

12.9

No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Site-Added **Health Risk Behavior and Percentages** Linear Change* Quadratic Change* Change from 2017-2019 † 2009 2011 2013 2015 2017 2019 QN111: Percentage of students who have ever been taught by a nurse or doctor how to take care of or manage their asthma (among students who have ever had asthma) 60.9 56.1 66.5 53.5 No linear change Not available§ Decreased QN112: Percentage of students who used an indoor tanning device (such as a sunlamp, sunbed, or tanning

19.2

No linear change

Not available

17.5

booth [not counting getting a spray-on tan], one or more times during the 12 months before the survey)

QN113: Percentage of students who had a sunburn (counting even a small part of the skin turning red or hurting for 12 hours or more after being outside in the sun or after using a sunlamp or other indoor tanning

17.8

Female

No change

device, one or more times during the 12 months before the survey) 58.9 63.4 No linear change Not available No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. † Based on t-test analysis, p < 0.05.

Missouri High School Survey 10-year Trend Analysis Report

Female

		Health Risk Behav	ior and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019	_		
		o most of the time or nopeless, angry, or a		d of help they need	(among students	,		
			28.0	30.1	23.6	No linear change	Not available [§]	No change
	ntage of students whays before the survey	o ate dinner at home	with at least one of	f their parents on fo	our or more days	·, · · · · · · · · · · · · · · · · · ·		
			63.2	58.0	64.0	No linear change	Not available	No change
		o strongly agree or a	gree that their teach	hers really care abo	ut them and give			
N117: Percei hem a lot of en	couragement							
	couragement		62.7	58.7	57.2	No linear change	Not available	No change
nem a lot of en	ntage of students wh	o participate in scho week when they are	ol activities one or			No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

njury and Violen	ice	Health Risk Beha	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
QN8: Percentage	e of students who	rarely or never wore	a seat belt (when ri	ding in a car driven	by someone else)		
9.4		9.8	7.2	7.8	6.3	Decreased, 2009-2019	Not available¶	No change
		rode with a driver whys before the survey)		ng alcohol (in a car	or other vehicle,			
24.5		17.4	17.5	14.3	15.1	Decreased, 2009-2019	Not available	No change
	g the 30 days befo	drove a car or other ore the survey, among						
		8.8	6.5	5.3	4.4	Decreased, 2013-2019	Not available	No change

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

		Health Risk Behav	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
	rys before the surve	texted or e-mailed w y, among students wl						
		47.3	49.8	46.6	48.4	No linear change	Not available¶	No chang
)N12: Paraant	age of students who	appried a waspen (s	ich os o gun knifo	or alub on at least	1 day during the			
		carried a weapon (su	nch as a gun, knife,	or club, on at least	1 day during the	Increased, 2009-2019	Not available	No chang
0 days before t 14.9 2N13: Percenta	he survey)	23.6 carried a weapon on	23.4	21.8	19.0	Increased, 2009-2019	Not available	No chang
0 days before t 14.9 2N13: Percenta	the survey) age of students who	23.6 carried a weapon on	23.4	21.8	19.0	Increased, 2009-2019 No linear change	Not available Not available	No chang
2N13: Percenta east 1 day durin	age of students who ag the 30 days before	23.6 carried a weapon on	23.4 school property (s 5.8 because they felt u	21.8 uch as a gun, knife. 4.3	19.0 , or club, on at 4.1			

^{*}Non-Hispanic. *Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

njury and Viole		Health Risk Beha	vior and Percentas	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
QN17: Percenta	age of students who	were in a physical f	ight (one or more ti	mes during the 12	months before the			
•				19.6	22.8	No linear change	Not available¶	No change
QN19: Percenta	age of students who	were ever physicall	y forced to have sex	kual intercourse (w	hen they did not			
7.3		8.5	7.5	9.8	10.0	No linear change	Not available	No change
someone they winjured with an	vere dating or going object or weapon] o	experienced physica out with [counting s ne or more times du e during the 12 mon	uch things as being ring the 12 months	hit, slammed into before the survey,	something, or			
		7.8	10.0	9.9	7.7	No linear change	Not available	No change

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

hite* jury and Violen	ce	Health Risk Beha	vior and Percenta _s	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
					- :			
QN23: Percentag survey)	ge of students who	were bullied on sch	ool property (ever o	during the 12 month	ns before the			
ON23: Percentag	ge of students who	were bullied on sch	ool property (ever o	during the 12 month	ns before the			
23.9 N24: Percentag	ge of students who	26.0 were electronically al media, ever during	22.1 bullied (counting b	23.6 eing bullied throug	22.8	No linear change	Not available [¶]	No cha

31.7

32.7

26.4

Increased, 2009-2019

25.6

25.6

No change

Not available

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

White*	k	
Injury	and	Violence

		Health Risk Behav	vior and Percenta	ges	Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §	
2009	2011	2013	2015	2017	2019			
N26: Percenta	age of students who	seriously considered	d attempting suicide	e (ever during the 1	2 months before			
14.2		14.2	16.9	20.4	17.3	Increased, 2009-2019	Not available¶	No change
N27: Percenta		made a plan about h	now they would atte	empt suicide (durin	g the 12 months			
10.3		12.2	13.0	16.1	12.4	Increased, 2009-2019	Not available	Decreased
N28: Percenta urvey)	age of students who	o attempted suicide (c	one or more times d	luring the 12 month	as before the	 		
5.3		6.0	8.9	7.8	5.7	No linear change	Not available	No change
		o had a suicide attempts (during the 12 mo			, or overdose that			,
1.9		1.8	2.9	2.2	1.4	No linear change	Not available	No change

^{*}Non-Hispanic. *Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

hite* obacco Use								
		Health Risk Behav	vior and Percentag	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
QN31: Percenta	ge of students who	first tried cigarette s	moking before age	13 years (even one	or two puffs)			
								No about
				8.9	8.0	No linear change	Not available [¶]	No chang
						No linear change	Not available	No chang
QN32: Percenta	ge of students who	currently smoked ci	garettes (on at least			No linear change	Not available ¹	No chang
	ge of students who	currently smoked cig	garettes (on at least			No linear change Decreased, 2009-2019	Not available	
survey) 19.4	centage of students		12.0	1 day during the 3	0 days before the 7.2			No chang
survey) 19.4 QNFRCIG: Per	centage of students	14.4	12.0	1 day during the 3	0 days before the 7.2			
survey) 19.4 QNFRCIG: Per 30 days before t 6.7	centage of students he survey)	14.4 who currently smoke	12.0 ed cigarettes freque 4.6	9.9 ently (on 20 or more 2.9	0 days before the 7.2 e days during the 1.3	Decreased, 2009-2019	Not available	No chang

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

obacco Use		Health Risk Beha	avior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
	tage of students who ipes, vaping pens, e- o, and Halo])							
			41.7	40.8	52.0	Increased, 2015-2019	Not available¶	Increase
			41.7	40.6	32.0	Increased, 2013-2019	Not available	Increase
e-pipes, vape pi	tage of students who ipes, vaping pens, e- o, and Halo], on at l	hookahs, and hooka	lectronic vapor produh pens [such as blu,	luct (including e-ci NJOY, Vuse, Mar	garettes, e-cigars,	No linear change	Not available	Increased
e-pipes, vape pi Vapin Plus, eG QNFREVP: Pe	ipes, vaping pens, e-	hookahs, and hooka east 1 day during th	e 30 days before the	luct (including e-ci NJOY, Vuse, Mar survey) 11.5	garettes, e-cigars, kTen, Logic, 24.2			

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

Vhite* 'obacco Use								
		Health Risk Beha	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019	<u> </u>		
QNDAYEVP: the 30 days befo		ents who currently us	ed electronic vapor	products daily (on	all 30 days during	;		
the 50 days bere	sie die survey)		2.0	2.5	8.1	Increased, 2015-2019	Not available¶	Increased
	ntage of students we 30 days before the	ho currently smoked	cigarettes or used e	electronic vapor pro	oducts (on at least	· · · · · · · · · · · · · · · · · · ·		
r day during the	50 days before the	z survey)	26.4	17.5	26.7	No linear change	Not available	Increased
		o usually got their ov						
		market, discount sto rrently used electron						
				14.3	6.8	No linear change	Not available	No chang

^{*}Non-Hispanic. *Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

Vhite* Tobacco Use								
		Health Risk Beha	vior and Percentag	ges	Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §	
2009	2011	2013	2015	2017	2019			
dissolvable toba		currently used smok	keless tobacco (chev zzly, Skoal, or Cam					
vapor products,		ring the 30 days before			•			
vapor products,				6.1	6.1	No linear change	Not available [¶]	No change
QN38: Percenta	, on at least 1 day du	ring the 30 days before currently smoked ci	ore the survey)	-	6.1	No linear change	Not available [¶]	No change
QN38: Percenta	on at least 1 day du	ring the 30 days before currently smoked ci	ore the survey)	-	6.1	No linear change Decreased, 2009-2019	Not available [¶] Not available	No change Decreased
QN38: Percenta during the 30 da 12.1	tage of students who ays before the surve	currently smoked ci	igars (cigars, cigaril	los, or little cigars,	6.1 on at least 1 day 4.9			

^{*}Non-Hispanic. *Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

obacco Use		Health Risk Beha	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
smokeless toba	age of students who cco, shisha or hooka ong students who us	h tobacco, and elect	tronic vapor product	s, ever during the 1	2 months before			

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

hite* cohol and Othe	er Drug Use							
		Health Risk Behav	vior and Percentag	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
N40: Percenta	ge of students who	had their first drink	of alcohol before a	ge 13 years (other t	han a few sips)			
17.9		18.9	15.3	18.4	14.5			

QN42: Percentage of students who currently were binge drinking (had four or more drinks of alcohol in a row for female students or five or more drinks of alcohol in a row for male students, within a couple of hours, on at least 1 day during the 30 days before the survey)

No change 19.1 16.7 Not available No linear change

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

[§]Based on t-test analysis, p < 0.05.

Not enough years of data to calculate.

		Health Risk Behav	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
		usually got the alcol tudents who currentl		omeone giving it to	them (during the			
41.4		34.7	39.8	43.1	41.2	No linear change	Not available [¶]	No chang
QN47: Percents	age of students who	currently used marij	uana (one or more	times during the 30	days before the			
18.4		17.9	14.7	19.2	13.1	No linear change	Not available	Decreased
QN49: Percent	how a doctor told the	ever took prescriptionem to use it (counting the more times during the	ng drugs such as co	ithout a doctor's pr deine, Vicodin, Ox	escription or yContin,			,
	nd Percocet, one or							

^{*}Non-Hispanic. *Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

Vhite* Alcohol and Other Drug Use		Health Risk Beha	vior and Percenta	ges	Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §	
2009	2011	2013	2015	2017	2019			
QN52: Percent more times duri		o ever used heroin (a	iso called "smack,"	"junk," or "China V	Vhite," one or	No linear change	Not available [¶]	No change

^{*}Non-Hispanic. *Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

Based on t-test analysis, p < 0.05.
Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

White*

		Health Risk Behav	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
QN58: Percenta	age of students who	ever had sexual inte	rcourse					
43.9		39.4	37.1	41.9	44.4	No linear change	Not available [¶]	No change
N59: Percenta	age of students who	had sexual intercour	se for the first time	e before age 13 year	rs .			
2.9		2.2	2.9	1.9	3.7	No linear change	Not available	No change
	age of students who he 3 months before	were currently sexuathe survey)	ally active (had sex	cual intercourse with	n at least one			
erson, auring t		30.5	27.6	33.0	34.2	No linear change	Not available	No chang
32.4		2010						
32.4 QN62: Percenta	age of students who	drank alcohol or use		sexual intercourse	(among students			

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

		Health Risk Beha	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
QN63: Percenta currently sexual	•	used a condom duri	ng last sexual inter	course (among stud	lents who were	,		
57.5		56.4	56.3	51.6	58.2	No linear change	Not available¶	No change
	age of students who	o used birth control pays sexually active)	ills before last sexu	al intercourse (to p	revent pregnancy,			
30.0		17.9	24.4	26.4	31.1	No linear change	Not available	No change
	xplanon) before las	ts who used an IUD t sexual intercourse (
		2.3	4.6	4.0	4.8	No linear change	Not available	No change

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

		Health Risk Behav	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
birth control rin		nts who used a shot (ng) before last sexual						
		5.5	5.7	7.0	6.7	No linear change	Not available¶	No chang
ONOTHHPL:	Percentage of stude	nts who used birth co	ontrol pills: an IUD	(such as Mirena or	· ParaGard) or			
implant (such a control ring (su	s Implanon or Nexp ch as NuvaRing) be	nts who used birth co lanon); or a shot (suc fore last sexual interc	ch as Depo-Provera), patch (such as O	rthoEvra), or birth			
implant (such a	s Implanon or Nexp ch as NuvaRing) be	lanon); or a shot (suc	ch as Depo-Provera), patch (such as O	rthoEvra), or birth	Increased, 2013-2019	Not available	No chang
implant (such a control ring (su currently sexual QNDUALBC: pills; an IUD (s Depo-Provera),	s Implanon or Nexp ch as NuvaRing) be lly active) Percentage of stude such as Mirena or Pa patch (such as Orth	lanon); or a shot (suc fore last sexual interc	condom during last such as Implanon or rol ring (such as No	37.4 sexual intercourse r Nexplanon); or a uvaRing) before las	rthoEvra), or birth students who were 42.5	Increased, 2013-2019	Not available	No chanş

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

	Health Risk Behav	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2011	2013	2015	2017	2019			
			ent pregnancy durin	g last sexual			
	13.7	9.3	10.8	6.6	No linear change	Not available¶	No change
	centage of stude	2011 2013 centage of students who did not use a students who were currently sexually	2011 2013 2015 centage of students who did not use any method to prev students who were currently sexually active)	centage of students who did not use any method to prevent pregnancy durin students who were currently sexually active)	2011 2013 2015 2017 2019 centage of students who did not use any method to prevent pregnancy during last sexual students who were currently sexually active)	2011 2013 2015 2017 2019 centage of students who did not use any method to prevent pregnancy during last sexual students who were currently sexually active)	2011 2013 2015 2017 2019 centage of students who did not use any method to prevent pregnancy during last sexual students who were currently sexually active)

^{*}Non-Hispanic. *Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

		Health Risk Behav	vior and Percentag	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
		who were overweight fic reference data fror			ile for body mass			
		15.0	12.2	15.5	15.7	No linear change	Not available	No chang
12.4 ONOBESE: Pe	ercentage of student	15.0 s who had obesity (>=	·			No illear change	Not available	Two chang
NOBESE: Pe		s who had obesity (>= in the 2000 CDC grow 14.5	= 95th percentile fo			No linear change	Not available	
QNOBESE: Pend age-specific 14.1	age of students who	s who had obesity (>= n the 2000 CDC grov	= 95th percentile fo wth charts) [¶] 12.2	or body mass index,	based on sex-			No chang
NOBESE: Pend age-specific 14.1 2009: Percenta	age of students who	s who had obesity (>= n the 2000 CDC grow 14.5	= 95th percentile fo wth charts) [¶] 12.2	or body mass index,	based on sex-			No chang
QNOBESE: Pe and age-specific 14.1 QN69: Percental lays before the 26.8	age of students who survey)	s who had obesity (>= n the 2000 CDC grov 14.5	= 95th percentile for wth charts) [¶] 12.2 sice (100% fruit juice) 33.1	or body mass index, 15.8 ces one or more tim 35.6	p based on sex- 17.5 nes during the 7 36.4	No linear change	Not available	

^{*}Non-Hispanic.

 $^{^{\}dagger}$ Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

[§]Based on t-test analysis, p < 0.05.

Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

^{**}Not enough years of data to calculate.

		Health Risk Behav	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
		no did not eat fruit or ays before the survey		uices (such as orang	ge juice, apple			
6.3		7.4	6.6	7.2	6.4	No linear change	Not available¶	No chan
		no ate fruit or drank 1 uice, during the 7 day			r day (such as			
55.1		54.2	52.4	49.2	49.9	Decreased, 2009-2019	Not available	No chang
		no ate fruit or drank 1 uice, during the 7 day			er day (such as			

^{*}Non-Hispanic. *Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

		Health Risk Behav	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
QN71: Percenta survey)	age of students who	did not eat green sal	ad (one or more tir	nes during the 7 da	ys before the			
33.9		40.0	40.7	44.2	42.4	Increased, 2009-2019	Not available¶	No chang
26.6	age of students who	did not eat potatoes 26.3	(one or more times 33.2	during the 7 days 30.5	before the survey) 35.8	Increased, 2009-2019	Not available	No chang
26.6		-	33.2	30.5	35.8	Increased, 2009-2019	Not available	No chang
26.6		26.3	33.2	30.5	35.8	Increased, 2009-2019 No linear change	Not available Not available	No chang
26.6 QN73: Percenta 50.0	age of students who	26.3 did not eat carrots (o	one or more times of 52.0	30.5 during the 7 days be	35.8 efore the survey) 52.1			

^{*}Non-Hispanic. *Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

		Health Risk Behav	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019	_		
		who did not eat vege ots, or other vegetab						
5.0		5.1	4.5	7.3	6.2	No linear change	Not available [¶]	No chang
excluding Fren		who ate vegetables o bes, or potato chips],						
						Decreased, 2009-2019	Not available	No chang
[excluding Frenches survey) 65.6 QNVEG2: Perc	ch fries, fried potate	pes, or potato chips],	60.7	57.4 er day (green salad,	59.4 potatoes	Decreased, 2009-2019	Not available	No chan

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

		Health Risk Behav	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
		who ate vegetables the oes, or potato chips],						
13.4		10.1	9.7	8.5	8.9	Decreased, 2009-2019	Not available¶	No chang
QN76: Percenta	age of students who	did not drink milk (d	during the 7 days b	efore the survey)				
QN76: Percenta 12.9	age of students who	did not drink milk (o	during the 7 days b	efore the survey) 22.3	26.0	Increased, 2009-2019	Not available	No chang
12.9 QNMILK1: Perdrank in a glass	rcentage of students	15.6 s who drank one or mon, or with cereal and	17.9	22.3	the milk they		Not available	No chang

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

		Health Risk Behav	vior and Percentag	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
drank in a glass		s who drank three or on, or with cereal and ore the survey)						
16.1		12.2	11.2	7.5	7.1	Decreased, 2009-2019	Not available¶	No change
								<u> </u>
QN77: Percent	age of students who	o did not eat breakfas	t (during the 7 days	before the survey)				
QN77: Percent	rage of students who	o did not eat breakfast	t (during the 7 days	before the survey)	14.4	No linear change	Not available	No change
			13.5	13.6	14.4	No linear change	Not available	

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

		Health Risk Behav	vior and Percentag	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019	_		
	d activity that increa	were physically acti sed their heart rate an						
		47.5	48.7	48.1	50.2	No linear change	Not available¶	No change
least 1 day (in a		nts who did not partic activity that increase ae survey) 17.7				Decreased, 2013-2019	Not available	Decreased
least 1 day (in a the time during QNPA7DAY: 1	any kind of physical the 7 days before the Percentage of students is a capacitate of the Percentage of students in the Percent	activity that increase ne survey)	d their heart rate at 13.7	15.1 0 minutes per day	the hard some of 10.8 on all 7 days (in	Decreased, 2013-2019	Not available	Decrease

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

		Health Risk Behav	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
QN79: Percenta	age of students who	watched television 3	or more hours per	day (on an average	e school day)			
26.1		21.8	18.8	19.4	17.8	Decreased, 2009-2019	Not available¶	No change
	me spent on things	played video or com such as Xbox, PlaySt	ation, an iPad or o		hone, texting,			
	514111, 1 400 00011, 01	other social media, i	8					
YouTube, Insta	5. m., 2 m. 0	32.5	37.8	42.4	42.9	Increased, 2009-2019	Not available	No change
YouTube, Instance School day) 20.7 QN81: Percenta			37.8			Increased, 2009-2019	Not available	No change

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

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White* Physical Activity		Health Risk Beha	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 [§]
2009	2011	2013	2015	2017	2019			
QNDLYPE: Perco		s who attended phys	ical education (PE)	classes on all 5 day	ys (in an average			
33.3		33.0	24.8	29.1	29.0	No linear change	Not available¶	No change

QN83: Percentage of students who had a concussion from playing a sport or being physically active (one or more times during the 12 months before the survey)

14.9 No change 17.2 No linear change Not available

 $^{^*}Non-Hispanic. \\ ^\dagger Based \ on \ trend \ analyses \ using \ a \ logistic \ regression \ model \ controlling \ for \ sex, \ race/ethnicity, \ and \ grade, \ p<0.05.$

 $^{^\$}$ Based on t-test analysis, p < 0.05. $^\$$ Not enough years of data to calculate.

		Health Risk Behav	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
	age of students who	o saw a dentist (for a cryey)	check-up, exam, tec	eth cleaning, or oth	er dental work,	,		
			72.6	72.3	70.3	No linear change	Not available¶	No chang
	arcantaga of studen	te who navar caw a d	entist (for a check	un avam taath cla	ening or other			
QNNODNT: P	ercentage of studen	ts who never saw a d	entist (for a check-	up, exam, teeth cle	aning, or other			
	ercentage of studen	ts who never saw a d	entist (for a check-	up, exam, teeth clea	aning, or other 2.8	No linear change	Not available	No chang
lental work)		ts who never saw a d	2.2	2.3	2.8	No linear change	Not available	No chang
dental work)			2.2	2.3	2.8	No linear change Increased, 2009-2019	Not available Not available	No chang
lental work) QN87: Percenta		had ever been told b	2.2 by a doctor or nurse	2.3 that they had asthr	2.8 ma			
dental work) QN87: Percenta 18.7	age of students who	had ever been told b	2.2 by a doctor or nurse 20.3	2.3 that they had asthr	2.8 ma 23.1			

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

Vhite* ite-Added								
		Health Risk Beha	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019	_		
QN90: Percent car)	age of students who	rarely or never wear	r a seat belt when d	riving (among stud	ents who drive a			
		9.4	6.2	7.5	5.4	No linear change	Not available¶	No change
QN91: Percent	age of students who	rode in a car or othe	er vehicle driven by	someone who was	texting or			
		o rode in a car or othe 1 day during the 30			texting or 65.9	No linear change	Not available	No chang
e-mailing while	driving (on at least		days before the sur	vey) 67.5	65.9	No linear change	Not available	No change
e-mailing while QN92: Percent	driving (on at least	1 day during the 30	days before the sur	vey) 67.5	65.9	No linear change No linear change	Not available Not available	No chang
e-mailing while QN92: Percent value in exchan	driving (on at least	1 day during the 30	days before the sur	o stay, food, or som	ething else of			

^{*}Non-Hispanic. *Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

White*
Site-Added

		Health Risk Beha	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019	_		
	age of students who	have ever participat	ed in a program to	help them quit usin	g tobacco (among			
		8.3	11.8	6.8	11.3	No linear change	Not available¶	No change
		reported that their s	chool has special gr	roups or classes for	students who			
ant to quit usi	ng tobacco	3.8	2.1	2.5	3.7	No linear change	Not available	No chang
	age of students who	3.8 reported that someoneast one day during t	ne smoked tobacco	products in the stu		No linear change	Not available	No chang
N99: Percent	age of students who	reported that someo	ne smoked tobacco	products in the stu		No linear change No linear change	Not available Not available	No chang No chang
N99: Percenta hile the studer N100: Percen	age of students who nt was there (on at l	reported that someo east one day during to	ne smoked tobacco he 7 days before th 28.0	products in the stu e survey) 30.9	ident's home			

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

/hite* ite-Added								
		Health Risk Beha	vior and Percentag	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
indoor or outdo	oor public places (su	no breathed the smok sich as school building during the 7 days bef	s, stores, restaurant					
			50.4	53.1	43.1	No linear change	Not available¶	Decreased
the place where		no breathed the smoke least one day during e survey)						
he place where	e they worked (on at	least one day during				No linear change	Not available	No chang
the place where worked during	e they worked (on at the 7 days before th ntage of students wh	least one day during	the 7 days before t	he survey, among s	students who 21.1	No linear change	Not available	No chang
he place where worked during	e they worked (on at the 7 days before th ntage of students wh	t least one day during e survey)	the 7 days before t	he survey, among s	students who 21.1	No linear change Decreased, 2015-2019	Not available Not available	No chang Decrease
the place where worked during to worked during to QN103: Percer where people w	e they worked (on at the 7 days before the ntage of students where	t least one day during e survey)	22.9 nould never allow so 86.6	25.9 moking in indoor a 87.8	reas in places 77.5			

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

White* Site-Added Linear Change[†] **Health Risk Behavior and Percentages** Quadratic Change[†] Change from 2017-2019 § 2009 2011 2013 2015 2017 2019 QN111: Percentage of students who have ever been taught by a nurse or doctor how to take care of or manage their asthma (among students who have ever had asthma) 52.7 53.5 57.3 54.4 No linear change Not available¶ No change QN112: Percentage of students who used an indoor tanning device (such as a sunlamp, sunbed, or tanning booth [not counting getting a spray-on tan], one or more times during the 12 months before the survey) 14.0 13.9 15.5 Not available No change No linear change

63.8

71.1

Increased, 2017-2019

Not available

QN113: Percentage of students who had a sunburn (counting even a small part of the skin turning red or hurting for 12 hours or more after being outside in the sun or after using a sunlamp or other indoor tanning

device, one or more times during the 12 months before the survey)

Increased

^{*}Non-Hispanic.

 $^{^{\}dagger}$ Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{{}^{\}S}B$ ased on t-test analysis, p < 0.05.

Not enough years of data to calculate.

/hite* te-Added								
		Health Risk Beha	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019	<u> </u>		
		o most of the time o nopeless, angry, or a		d of help they need	(among students			
			28.4	28.2	23.3	Decreased, 2015-2019	Not available¶	No chang
	ntage of students who	o ate dinner at home	with at least one o	f their parents on fo	our or more days			
			65.3	60.8	64.7	No linear change	Not available	No chang
QN117: Percen hem a lot of end		o strongly agree or a	agree that their teach	hers really care abo	ut them and give			
			61.1	63.4	57.2	No linear change	Not available	No chang
		o participate in scho week when they are		more hours (such a	s sports, band,			
	-	,	70.4	67.0	72.1	No linear change	Not available	No chang

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

		Health Risk Behav	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019	<u> </u>		
QN8: Percenta	ge of students who	arely or never wore	a seat belt (when ri	ding in a car driven	by someone else)			
21.3		14.6	11.6	13.7	18.4	No linear change	Not available [¶]	No chang
)N9: Percenta	ge of students who	ode with a driver wh	o had been drinkin	g alcohol (in a car	or other vehicle,			
		rode with a driver whys before the survey) 23.7		g alcohol (in a car	or other vehicle,	Decreased, 2009-2019	Not available	No chang
26.0 QN12: Percent	es during the 30 day	ys before the survey)	20.5	19.7	14.0	Decreased, 2009-2019	Not available	No chanş
26.0 QN12: Percent	es during the 30 day	ys before the survey) 23.7	20.5	19.7	14.0	Decreased, 2009-2019 No linear change	Not available Not available	No chang
QN12: Percent 19.1 QN13: Percent QN13: Percent	es during the 30 day age of students who he survey)	ys before the survey) 23.7 carried a weapon (su 12.2 carried a weapon on	20.5 uch as a gun, knife, 14.8	19.7 or club, on at least	14.0 1 day during the 14.9			

^{*}Non-Hispanic. *Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

jury and Viole		Health Risk Behav	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
		did not go to school g the 30 days before		nsafe at school or o	on their way to or			
			8.4	8.5	3.8	No linear change	Not available¶	No chang
)N17: Percent	age of students who	were in a physical fi	ight (one or more ti	mes during the 12 r	months before the			
	age of students who	were in a physical fi	ight (one or more ti	mes during the 12 r	months before the 26.5	Increased, 2017-2019	Not available	Increase
Survey) QN19: Percenta		were in a physical fi		15.2	26.5	Increased, 2017-2019	Not available	Increase
QN19: Percenta				15.2	26.5	Increased, 2017-2019 No linear change	Not available Not available	Increase No chang
QN19: Percenta want to) 8.6	age of students who	were ever physically	y forced to have sex	15.2 xual intercourse (wh	26.5 nen they did not 5.2			

^{*}Non-Hispanic. *Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

ack* jury and Viole	nce							
		Health Risk Behav	vior and Percentag	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
		were electronically to al media, ever during			h texting,			
				10.5	0.1	No linear shance	Not available¶	No chang
			13.3	13.5	9.1	No linear change	ivot available	TVO Chang
		o felt sad or hopeless (s, ever during the 12 r	(almost every day f	For >=2 weeks in a		No linear change	Not available	TVO Chang
			(almost every day f	For >=2 weeks in a		No linear change	Not available	
stopped doing so 29.5	ome usual activities	s, ever during the 12 r	(almost every day f months before the s 26.8	For >=2 weeks in a survey) 26.0	row so that they 24.3			No chang
29.5 QN26: Percenta	ome usual activities	s, ever during the 12 r	(almost every day f months before the s 26.8	For >=2 weeks in a survey) 26.0	row so that they 24.3			
29.5 QN26: Percentathe survey) 17.1	ge of students who	30.2 o seriously considered	(almost every day formonths before the same 26.8) I attempting suicide 11.1	For >=2 weeks in a survey) 26.0 e (ever during the 1) 18.7	row so that they 24.3 2 months before 12.0	No linear change	Not available	No chang

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

ack* bacco Use								
		Health Risk Behav	vior and Percentag	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
QN31: Percenta	age of students who	first tried cigarette s	moking before age	13 years (even one	e or two puffs)			
				10.7	10.3	No linear change	Not available¶	No change
						2.12.2.2.2.2		
	age of students who	currently smoked ci	garettes (on at least	1 day during the 3	30 days before the			
	age of students who	currently smoked ci	garettes (on at least	1 day during the 3	3.3	Decreased, 2009-2019	Not available	
15.7 QNFRCIG: Per	rcentage of students	•	5.9	5.0	3.3		Not available	No chang
15.7 QNFRCIG: Per	rcentage of students	11.3	5.9	5.0	3.3		Not available Not available	No chang
Survey) 15.7 QNFRCIG: Per 10 days before to 5.0	rcentage of students the survey) Percentage of students	11.3 who currently smoke	5.9 ed cigarettes freque 2.9	5.0 ently (on 20 or mor	3.3 re days during the 0.0	Decreased, 2009-2019		

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

ack* obacco Use								
		Health Risk Beha	vior and Percentag	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
e-pipes, vape pi	ipes, vaping pens, e-	ever used an electro hookahs, and hooka						
Vapin Plus, eGo	o, and Haioj)							
v apın Pius, eG	o, and Haioj)		34.3	35.4	40.3	No linear change	Not available¶	No chang
QN37: Percent	age of students who	o currently used smol as Copenhagen, Gri Iring the 30 days bef	keless tobacco (chev zzly, Skoal, or Cam	wing tobacco, snuff	c, dip, snus, or		Not available¶ Not available	No chang
QN37: Percent	age of students who	as Copenhagen, Gri	keless tobacco (chev zzly, Skoal, or Cam	ving tobacco, snufi el Snus], not count	, dip, snus, or ing any electronic	·		
QN37: Percent dissolvable tobavapor products,	age of students who acco products [such on at least 1 day du	as Copenhagen, Gri uring the 30 days bef	keless tobacco (chev zzly, Skoal, or Camo ore the survey)	wing tobacco, snuffel Snus], not count	f, dip, snus, or ing any electronic	·		

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Black* **Tobacco Use**

2009

2011

Health Risk Behav	vior and Percenta	ages		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2013	2015	2017	2019			

QNTB2: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day during the 30 days before the survey)

14.2 10.9 6.8 No change 24.6 20.8 Decreased, 2009-2019 Not available¶

 $^{^*}Non-Hispanic. \\ ^*Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.$

 $^{^\$}$ Based on t-test analysis, p < 0.05. $^\$$ Not enough years of data to calculate.

		Health Risk Beha	nvior and Percenta	nges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019	<u> </u>		
N49: Percent:	age of students who	ever took prescripti	ion nain medicine v	vithout a doctor's pr	escription or			
differently than	how a doctor told t	ever took prescripti hem to use it (counti more times during t	ing drugs such as co			No linear change	Not available¶	No chang
differently than Hydrocodone, a	how a doctor told tond Percocet, one or	hem to use it (counti	ing drugs such as co their life)	odeine, Vicodin, Öx 16.1	yContin, 25.0	No linear change	Not available [¶]	No chan

^{*}Non-Hispanic. *Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

		Health Risk Behav	vior and Percentag	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019	_		
QN69: Percent days before the		o did not drink fruit ju	nice (100% fruit jui	ces one or more tin	nes during the 7			
23.2		28.6	22.9	29.3	28.4	No linear change	Not available¶	No chang
						· · · · · · · · · · · · · · · · · · ·		:
20.2		o did not eat fruit (one	14.6	17.9	19.9	No linear change	Not available	No chang
20.2 QNFR0: Percer	ntage of students w		14.6 drink 100% fruit ju	17.9	19.9	No linear change	Not available	No chang
20.2 QNFR0: Percer	ntage of students w	12.8	14.6 drink 100% fruit ju	17.9	19.9	No linear change No linear change	Not available Not available	No chang
QNFR0: Percei juice, or grape j 10.4 QNFR1: Percei	ntage of students wijuice, during the 7 d	12.8 ho did not eat fruit or ays before the survey	14.6 drink 100% fruit ju 6.6 100% fruit juices or	17.9 uices (such as orang 8.3	19.9 ge juice, apple 8.7			

^{*}Non-Hispanic. *Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

		Health Risk Behav	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
		ho ate fruit or drank 1 uice, during the 7 day			er day (such as			
34.1		32.3	27.8	22.4	33.4	No linear change	Not available [¶]	No chang
	ge of students who	o did not eat green sal	ad (one or more tin	mes during the 7 day	ys before the			
	ge of students who	o did not eat green sal	ad (one or more tin	nes during the 7 day	ys before the 46.9	No linear change	Not available	No chang
50.5		-	53.5	50.1	46.9	No linear change	Not available	No chang
50.5		48.5	53.5	50.1	46.9	No linear change No linear change	Not available Not available	No chang
50.5 QN73: Percenta 67.3	ge of students who	48.5 o did not eat carrots (o	53.5 one or more times of 71.5	50.1 during the 7 days be	46.9 efore the survey) 63.6			

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

		Health Risk Behav	vior and Percentag	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
QN76: Percent	age of students who	did not drink milk (d	luring the 7 days be	efore the survey)				
33.3		29.8	35.8	41.3	30.8	No linear change	Not available [¶]	No change
			ore alesses per der	of milk (counting	the milk they	· · · · · · · · · · · · · · · · · · ·		
drank in a glass		on, or with cereal and						
	or cup, from a cart	on, or with cereal and				Decreased, 2009-2019	Not available	No chang
drank in a glass to one glass, du 29.6 QNMILK3: Pe drank in a glass	or cup, from a cartering the 7 days before the 7	on, or with cereal and one the survey) 22.6 s who drank three or son, or with cereal and	20.7 more glasses per da	pint of milk served 19.7 The served	21.6 g the milk they	Decreased, 2009-2019	Not available	No chang

^{*}Non-Hispanic. *Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

		Health Risk Behav	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
QN77: Percent	tage of students who	did not eat breakfas	t (during the 7 days	s before the survey)				
N77: Percenta	tage of students who	did not eat breakfast	t (during the 7 days	s before the survey) 16.7	17.6	No linear change	Not available¶	No chang
-			21.3	16.7	17.6	No linear change	Not available¶	No chang

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

lack* ite-Added								
		Health Risk Behav	vior and Percenta	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
		o rode in a car or othe t 1 day during the 30			texting or			
				56.1	57.4	No linear change	Not available¶	No chang
		have ever been give	n money, a place to	stay, food, or som	nething else of			
) have ever been give	n money, a place to	stay, food, or som	nething else of 3.4	No linear change	Not available	Decrease
value in exchan	age for sex	o have ever been give		8.4	3.4	No linear change	Not available	Decrease
value in exchan	age for sex			8.4	3.4	No linear change No linear change	Not available Not available	
QN98: Percent want to quit usi	tage of students who	o reported that their so	chool has special gr 5.2 ne smoked tobacco	8.4 roups or classes for 7.5 products in the stu	3.4 students who 7.2			Decrease No chang

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

		Health Risk Beha	vior and Percentag	ges		Linear Change [†]	Quadratic Change [†]	Change from 2017-2019 §
2009	2011	2013	2015	2017	2019			
	tage of students wh	no rode in a vehicle v	here someone was	smoking a tobacco	product (on at			
east one day dui	ring the 7 days ber	ore the survey)	32.3	33.9	23.3	No linear change	Not available¶	No chang
	or public places (su	no breathed the smok	s, stores, restaurant					
	on at least one day	during the / days be						
ots, and parks, o	on at least one day	during the 7 days bei	43.8	39.5	30.2	Decreased, 2015-2019	Not available	No chang

^{*}Non-Hispanic. †Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05.

 $^{^{\$}}$ Based on t-test analysis, p < 0.05. Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Hispanic

		Health Risk Behavi	ior and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
QN8: Percentag	ge of students who	rarely or never wore	a seat belt (when ri	ding in a car driver	by someone else)			
		23.9	14.1	13.2	9.3	Decreased, 2013-2019	Not available§	No change
		rode with a driver whys before the survey)		g alcohol (in a car	or other vehicle,			
		35.7	28.6	22.5	28.9	No linear change	Not available	No change
N12: Percent 0 days before t		carried a weapon (su	uch as a gun, knife,	or club, on at least	1 day during the			
		25.1	24.3	19.1	24.3	No linear change	Not available	No change
	age of students who	carried a weapon on	school property (s	uch as a gun, knife	, or club, on at			
3	2	3,	8.0	4.8	9.2	No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Hispanic **Injury and Violence Health Risk Behavior and Percentages** Linear Change* Quadratic Change* Change from 2017-2019 † 2009 2011 2013 2015 2017 2019 QN15: Percentage of students who did not go to school because they felt unsafe at school or on their way to or from school (on at least 1 day during the 30 days before the survey) 11.1 11.0 17.6 No linear change Not available§ No change QN17: Percentage of students who were in a physical fight (one or more times during the 12 months before the survey) 21.0 39.4 Increased, 2017-2019 Not available Increased QN19: Percentage of students who were ever physically forced to have sexual intercourse (when they did not want to) 16.3 15.9 16.2 16.3 No linear change Not available No change QN23: Percentage of students who were bullied on school property (ever during the 12 months before the survey) 23.2 25.1 25.5 24.2 No linear change No change Not available

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	or and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019	_		
		were electronically lal media, ever during			h texting,			
			17.0	21.2	19.2	No linear change	Not available§	No change
		o felt sad or hopeless (s, ever during the 12 r			row so that they			
					row so that they 43.1	No linear change	Not available	No change
stopped doing s QN26: Percent	ome usual activities	s, ever during the 12 r	nonths before the s 38.0	37.4	43.1	No linear change	Not available	No change
stopped doing s	ome usual activities	s, ever during the 12 r	nonths before the s 38.0	37.4	43.1	No linear change No linear change	Not available Not available	No change
QN26: Percent the survey)	age of students who	42.7 o seriously considered	38.0 attempting suicide 21.2	37.4 e (ever during the 1	43.1 2 months before 25.9			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Hispanic **Injury and Violence Health Risk Behavior and Percentages** Linear Change* Quadratic Change* Change from 2017-2019 † 2009 2011 2013 2015 2017 2019 QN28: Percentage of students who attempted suicide (one or more times during the 12 months before the survey)

17.8 12.2 10.9 17.4

QN29: Percentage of students who had a suicide attempt that resulted in an injury, poisoning, or overdose that had to be treated by a doctor or nurse (during the 12 months before the survey)

> 3.8 7.2 3.4 5.2 No linear change Not available No change

No linear change

Not available§

No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

spanic bacco Use								
		Health Risk Behavi	ior and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019			
QN31: Percent	age of students who	first tried cigarette s	moking before age	13 years (even one	e or two puffs)			
				12.1	15.1	No linear change	Not available§	No change
QN32: Percent survey)	age of students who	currently smoked ci	garettes (on at least	1 day during the 3	60 days before the	Decreased, 2013-2019	Not available	No change
QNFRCIG: Per 30 days before t		who currently smok	ed cigarettes freque	ently (on 20 or mor	re days during the			
		6.6	4.4	2.6	2.1	No linear change	Not available	No change
		0.0	7.7	2.0	2.1	1 to minute onlings	1 vot a variable	Tto Change
QNDAYCIG: 1 before the surve		nts who currently sm			:		riot available	Tio Giange

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

ispanic obacco Use		Health Risk Beha	vior and Percentag	es		Linear Change [*]	Quadratic Change [*]	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019	<u> </u>		
	pes, vaping pens, e-		onic vapor product (hh pens [such as blu					
			44.3	39.2	44.6	No linear change	Not available§	No change
e-pipes, vape pi	pes, vaping pens, e-	hookahs, and hooka	electronic vapor proc ah pens [such as blu, e 30 days before the	, NJOY, Vuse, Mar				
			19.7	7.5	14.4	No linear change	Not available	No change
	ercentage of students 30 days before the		19.7 d electronic vapor pr			No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Hispanic Fobacco Use								
		Health Risk Behav	ior and Percentag	es		Linear Change*	Quadratic Change*	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019			
QNDAYEVP: the 30 days before	Percentage of stude ore the survey)	nts who currently us	sed electronic vapor	products daily (on	all 30 days during			
			1.2	2.1	2.7	No linear change	Not available§	No change
	entage of students when the students when the students will be students and students with the students will be students as the students as the students will be students as the students as the students will be students as the students are the students as the students as the students are the students as the students are the students as the student		cigarettes or used e	lectronic vapor pro	ducts (on at least			
			28.2	12.0	19.0	No linear change	Not available	No change
dissolvable toba	rage of students who acco products [such on at least 1 day du	as Copenhagen, Gri	zzly, Skoal, or Cam					
				6.2	4.7	No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

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		Health Risk Behavi	ior and Percentag	Linear Change*	Quadratic Change [*]	Change from 2017-2019 †		
2009	2011	2013	2015	2017	2019			
		currently smoked ci	gars (cigars, cigaril	los, or little cigars,	on at least 1 day	,		
	age of students who		gars (cigars, cigaril	llos, or little cigars,	on at least 1 day	No linear change	Not available [§]	No change
uring the 30 da	ays before the surve	22.8	13.6	7.0	10.3	No linear change	Not available [§]	No chang
uring the 30 da	ntage of students wl	y)	13.6	7.0	10.3	No linear change	Not available [§]	No chang

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Hispanic **Alcohol and Other Drug Use Health Risk Behavior and Percentages** Linear Change* Quadratic Change* Change from 2017-2019 † 2009 2011 2013 2015 2017 2019 QN40: Percentage of students who had their first drink of alcohol before age 13 years (other than a few sips) 37.0 24.0 17.8 29.7 No linear change Not available§ Increased QN41: Percentage of students who currently drank alcohol (at least one drink of alcohol, on at least 1 day during the 30 days before the survey) 49.2 34.1 27.0 30.0 Decreased, 2013-2019 Not available No change ON42: Percentage of students who currently were binge drinking (had four or more drinks of alcohol in a row for female students or five or more drinks of alcohol in a row for male students, within a couple of hours, on at least 1 day during the 30 days before the survey) 8.6 16.9 No linear change Not available No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	or and Percentage	es		Linear Change*	Quadratic Change*	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
QN47: Percent survey)	age of students who	currently used marij	uana (one or more	times during the 30	days before the	-		
		31.6	20.4	17.8	22.7	No linear change	Not available§	No change
differently than	how a doctor told the	ever took prescriptionem to use it (counting the more times during the	ng drugs such as co					
Hydrocodone, a							N	
Hydrocodone, a				10.6	20.2	No linear change	Not available	No change
		ever used heroin (al	so called "smack,"			No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

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		Health Risk Behavi	ior and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019			
QN58: Percenta	age of students who	ever had sexual inte	rcourse					
		52.2	40.0	39.8	53.0	No linear change	Not available§	No change
QN59: Percenta	age of students who	had sexual intercour	rse for the first time	e before age 13 year	rs .			
		10.0	8.6	6.2	4.2	No linear change	Not available	No change
	age of students who	were currently sexuate the survey)	ally active (had sex	cual intercourse with	n at least one			
		41.3	28.2	29.8	35.2	No linear change	Not available	No change
	age of students who y donated blood)	o were ever tested for				No linear change	Not available	No c
	,			21.3	14.6	No linear change	Not available	No chang

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	ior and Percentag	es		Linear Change*	Quadratic Change [*]	Change from 2017-2019
2009	2011	2013	2015	2017	2019			
		who were overweight fic reference data from			ile for body mass			
		15.2	20.5	16.9	21.4	No linear change	Not available [¶]	No change
QNOBESE: Pe	ercentage of students	s who had obesity (>: n the 2000 CDC grow	= 95th percentile fo	or body mass index	based on sex-			
ONOBESE: Peund age-specific	ercentage of students c reference data fror	s who had obesity (>= in the 2000 CDC grow 18.3	= 95th percentile for wth charts)§ 10.5	or body mass index 25.6	based on sex-	No linear change	Not available	No change
and age-specific	c reference data fror	n the 2000 CDC grov 18.3	wth charts)§	25.6	16.7	No linear change	Not available	No change
and age-specific	age of students who	n the 2000 CDC grov	wth charts)§	25.6	16.7	No linear change	Not available	No change
and age-specific	age of students who	n the 2000 CDC grov 18.3	wth charts)§	25.6	16.7	No linear change No linear change	Not available Not available	No chang
and age-specific	age of students who	n the 2000 CDC grov 18.3 o did not drink fruit ju	wth charts) ^{\$} 10.5 sice (100% fruit jui	25.6 ces one or more tin	16.7 nes during the 7			
2N69: Percental	age of students who survey)	n the 2000 CDC grov 18.3 o did not drink fruit ju	wth charts) ^{\$} 10.5 uice (100% fruit juice) 27.0	25.6 ces one or more tin 29.0	16.7 nes during the 7			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Overweight and obese prevalence estimates for 1999 differ slightly from previously published results because different BMI cut points were used in 1999 than in subsequent years. To make these prevalence estimates comparable, the 1999 prevalence estimates were recalculated using the updated BMI cut points. In addition, beginning in 2017, new, slightly different ranges were used to calculate biologically implausible responses to height and weight questions.

Not enough years of data to calculate.

		Health Risk Behavi	or and Percentag		Linear Change*	Quadratic Change [*]	Change from 2017-2019 †	
2009	2011	2013	2015	2017	2019			
		ho did not eat fruit or ays before the survey		uices (such as orang	ge juice, apple			
		7.8	4.3	12.4	10.2	No linear change	Not available§	No change
		ho ate fruit or drank luice, during the 7 day			er day (such as			
		48.7	61.0	55.8	57.5	No linear change	Not available	No change
		ho ate fruit or drank luice, during the 7 day			er day (such as			
		23.9	25.2	29.9	20.5	No linear change	Not available	No chang

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

Hispanic **Weight Management and Dietary Behaviors Health Risk Behavior and Percentages** Linear Change* Quadratic Change* Change from 2017-2019 † 2009 2011 2013 2015 2017 2019 QN71: Percentage of students who did not eat green salad (one or more times during the 7 days before the survey) 43.2 48.5 49.9 38.2 Decreased, 2013-2019 Not available§ No change QN72: Percentage of students who did not eat potatoes (one or more times during the 7 days before the survey) 34.8 39.7 40.9 32.9 No linear change Not available No change QN73: Percentage of students who did not eat carrots (one or more times during the 7 days before the survey) 61.1 53.3 55.9 45.7 Decreased, 2013-2019 Not available No change QN74: Percentage of students who did not eat other vegetables (one or more times during the 7 days before the survey) 24.8 22.2 24.4 22.3 No linear change Not available No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	ior and Percentag	es		Linear Change [*]	Quadratic Change*	Change from 2017-2019 †
2009	2011	2013	2015	2017	2019			
		who did not eat vege ots, or other vegetab						
		8.8	9.8	18.4	9.1	No linear change	Not available§	No change
		who ate vegetables o						
are survey,			F2 C	54.0	61.6	No linear change	Not available	No change
aic survey)		53.0	53.6	34.0	01.0	140 inical change	Not available	No chang
QNVEG2: Pero		who ate vegetables to bes, or potato chips],	vo or more times p	er day (green salad,	potatoes	Two filled change	Not available	NO Chang

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behavi	Linear Change*	Quadratic Change [*]	Change from 2017-2019			
2009	2011	2013	2015	2017	2019			
		who ate vegetables thoes, or potato chips],						
			7.0	140	11.0	NI. Paramatana	NT / 1118	
		16.5	7.8	14.3	11.8	No linear change	Not available [§]	No chang
N76: Percenta	age of students who	16.5 o did not drink milk (d			11.8	No linear change	Not available	No chang
N76: Percenta	age of students who				22.5	No linear change	Not available	No chang
QNMILK1: Per Irank in a glass	rcentage of students	o did not drink milk (o 22.0 s who drank one or m	during the 7 days b 21.6 ore glasses per day	efore the survey) 28.3 y of milk (counting)	22.5	No linear change		

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

		Health Risk Behav	Linear Change [*]	Quadratic Change*	Change from 2017-2019			
2009	2011	2013	2015	2017	2019			
drank in a glass		who drank three or on, or with cereal and re the survey)						
S B								
g,		6.8	8.3	5.4	4.1	Decreased, 2013-2019	Not available [§]	No chang
	age of students who	6.8 did not eat breakfas				Decreased, 2013-2019	Not available ⁸	No chang
	age of students who					Decreased, 2013-2019 No linear change	Not available ⁸ Not available	No chang
QN77: Percent		did not eat breakfas	t (during the 7 days	s before the survey) 18.8	16.5			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

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were physically actives their heart rate and 33.0			e time during the			
sed their heart rate an	nd made them brea	the hard some of th	e time during the			
33.0	38.7	11.1				
		44.4	41.4	No linear change	Not available§	No change
activity that increase				No linear change	Not available	No change
n	activity that increase the survey) 20.5 nts who were physica	activity that increased their heart rate a se survey) 20.5 19.8 Ints who were physically active at least of creased their heart rate and made them	activity that increased their heart rate and made them breadle survey) 20.5 19.8 16.5 Ints who were physically active at least 60 minutes per day creased their heart rate and made them breathe hard some of the survey.	20.5 19.8 16.5 20.6 Ints who were physically active at least 60 minutes per day on all 7 days (in creased their heart rate and made them breathe hard some of the time during	activity that increased their heart rate and made them breathe hard some of the survey) 20.5 19.8 16.5 20.6 No linear change on the survey active at least 60 minutes per day on all 7 days (in creased their heart rate and made them breathe hard some of the time during	activity that increased their heart rate and made them breathe hard some of the survey) 20.5 19.8 16.5 20.6 No linear change Not available and the survey into the survey of the surve

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

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		Health Risk Behavi	Linear Change*	Quadratic Change [*]	Change from 2017-2019 †			
2009	2011	2013	2015	2017	2019			
QN79: Percent	tage of students who	watched television 3	or more hours per	day (on an average	school day)			
		30.5	21.8	22.4	21.1	No linear change	Not available [§]	No change
day (counting t	ime spent on things	played video or com such as Xbox, PlaySt other social media, fo	ation, an iPad or of	ther tablet, a smartp	hone, texting,			
school day)		34.6	31.2	38.5	33.8	No linear change	Not available	No change
school day) QN81: Percent	tage of students who y were in school)	34.6 attended physical ed				No linear change	Not available	No change

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

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		Health Risk Behavi	or and Percentag	Linear Change*	Quadratic Change [*]	Change from 2017-2019 †		
2009	2011	2013	2015	2017	2019	_		
		s who attended physi	cal education (PE)	classes on all 5 day	s (in an average			
eek when they	y were in school)		18.9		19.3	No linear change		
		25.6		27.7			Not available [§]	No chang

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

		Health Risk Behav	Linear Change*	Quadratic Change [*]	Change from 2017-2019 †			
2009	2011	2013	2015	2017	2019	_		
	age of students who	o saw a dentist (for a rvey)	check-up, exam, te	eth cleaning, or oth	er dental work,			
			62.1	66.5	60.5	No linear change	Not available [§]	No change
NNODNT: Plental work)	ercentage of studen	ts who never saw a d	lentist (for a check-	-up, exam, teeth clea	aning, or other			
	ercentage of studen	ts who never saw a d	lentist (for a check-	-up, exam, teeth clear	aning, or other 3.0	No linear change	Not available	No change
ental work)		ts who never saw a d	2.4	3.4	3.0	No linear change	Not available	No change
ental work)			2.4	3.4	3.0	No linear change	Not available Not available	No change
ental work) N87: Percent	age of students who	had ever been told b	2.4 by a doctor or nurse 18.1	3.4 e that they had asthr	3.0			

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

Missouri High School Survey 10-year Trend Analysis Report

spanic te-Added								
		Health Risk Behav	vior and Percentag	Linear Change [*]	Quadratic Change*	Change from 2017-2019 †		
2009	2011	2013	2015	2017	2019			
		o rode in a car or oth			texting or			
e-mailing while	driving (on at least	1 day during the 30	days before the sur		50.5	X .: .		
				54.8	59.7	No linear change	Not available [§]	No change
								No change
		have ever been give	en money, a place to	o stay, food, or som	ething else of			No change
QN92: Percent value in exchan		have ever been give	en money, a place to	o stay, food, or som	ething else of 9.7	No linear change	Not available	No change
value in exchan	ge for sex	have ever been give		12.6	9.7	No linear change	Not available	,

8.1

6.3

No linear change

QN98: Percentage of students who reported that their school has special groups or classes for students who

2.2

7.2

want to quit using tobacco

No change

Not available

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. †Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

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		Health Risk Behav	Linear Change*	Quadratic Change [*]	Change from 2017-2019 †			
2009	2011	2013	2015	2017	2019			
		o reported that some east one day during			ident's home			
			24.0	28.9	21.7	No linear change	Not available§	No change
	ntage of students where the tring the 7 days before	no rode in a vehicle vore the survey)	where someone was	smoking a tobacco	product (on at	,		
			25.8	24.3	26.0	No linear change	Not available	No change
indoor or outdo	or public places (su	no breathed the smok ich as school buildin during the 7 days be	gs, stores, restauran					

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

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2013 who think employers sh	2015	2017	2019			
who think employers sh	ould never allow s					
	iodid never anow s	moking in indoor a	reas in places			
	86.0	88.2	73.8	No linear change	Not available§	Decreased
who had been told by a	doctor or nurse tha	at they had asthma a	and who still have			
8.8	9.9	15.1	7.3	No linear change	Not available	No change
	8.8	who had been told by a doctor or nurse that 8.8 9.9	who had been told by a doctor or nurse that they had asthma a 8.8 9.9 15.1	who had been told by a doctor or nurse that they had asthma and who still have	who had been told by a doctor or nurse that they had asthma and who still have 8.8 9.9 15.1 7.3 No linear change	who had been told by a doctor or nurse that they had asthma and who still have 8.8 9.9 15.1 7.3 No linear change Not available

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.

		Health Risk Behav	Linear Change*	Quadratic Change [*]	Change from 2017-2019 †			
2009	2011	2013	2015	2017	2019			
hurting for 12 h	ours or more after b	o had a sunburn (conseing outside in the set 12 months before	un or after using a s					
				36.4	46.1	No linear change	Not available§	No change
	ntage of students wh	o ate dinner at home	with at least one of	f their parents on fo	our or more days			
			61.6	51.3	53.7	No linear change	Not available	No change
QN117: Percenthem a lot of en		o strongly agree or a	agree that their teacl	ners really care abo	out them and give			
			57.6	69.6	53.1	No linear change	Not available	Decreased
		o participate in scho week when they are		more hours (such a	s sports, band,			;
drama, or clubs.								

^{*}Based on trend analyses using a logistic regression model controlling for sex, race/ethnicity, and grade, p < 0.05. *Based on t-test analysis, p < 0.05.

[§]Not enough years of data to calculate.